ame of Work: Repair and Improvements to drains Mandi Mariyappa Reddy main road in Mariyannapalya in ward No 07 Byatarayanapura

PRE-MEASUREMENT SHEETS

"SECOND AND FINAL BILL"

Name of Work: Repair and Improvements to drains Mandi Mariyappa Reddy main road in Mariyannapalya in ward No 07 Byatarayanapura

Detailed Measurements

surement Recorded On: 01.01.2022

ı	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
	Removing and refixing stone slabs of drains and pointing in CM (1:3) including all lead and lead including loading and unloading and specifications as per the direction of engineer in						
	2nd Bill						
	Drain Desilt						
	Government High School Beside Rd						
	LHS						
	Ch: 0.00m to 30.00m	1	30.00	0.90		27.00	
	Ch: 30.00m to 60.00m	1	30.00	0.90		27.00	
	Ch: 60.00m to 66.00m	1	6.00	0.90		5.40	
	RHS						
	Ch: 0.00m to 30.00m	1	30.00	0.90		27.00	
	Ch: 30.00m to 60.00m	1	30.00	0.90		27.00	
					Total Qty	**113.40**	**Sqm**
	Qty Paid in 1st Bill MB Vide Page No.				,	**0.00**	**Sqm**
					Balance Qty to be Paid in 2nd Bill	**113.40**	**Sqm**

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 02.

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 02.

SILICON CONSULTING ENGINEERS

Consultant

...Engineer
...ub-division,
..., Bangalore

Asst. Engineer

Asst. Exec. Engineer

4

Name of Work: Repair and Improvements to drains Mandi Mariyappa Reddy main road in Mariyannapalya in ward No 07 Byatarayanapura

Detailed Measurements

Measurement Recorded On: 03.01.2022

Sl. No.	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
	KSRRB 300-1. **Earthwork excavation by manual means for roads, drains & similar works** in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications.						
	Drain Desilt						
	LHS from Kempegowda circle						
	Ch:0.00m to 30.00m	1	30.00	0.90	0.50	13.50	
	Ch:30.00m to 57.20m	1	27.20	0.90	0.50	12.24	
	Ch:57.20m to 66.20m	1	9.00	0.90	0.50	4.05	
	Ch:66.20m to 96.20m	1	30.00	0.90	0.50	13.50	
	Ch:96.20m to 115.60m	1	19.40	0.90	0.50	8.73	
	Gap						
	Ch:115.60m to 145.00m	1	29.40	0.90	0.50	13.23	
	2nd Bill						
	Drain Desilt						
	RHS from Kempegowda circle						
	Ch: 0.00m to 30.00m	1	30.00	0.60	0.50	9.00	
	Ch: 30.00m to 60.00m	1	30.00	0.60	0.50	9.00	
	Ch: 60.00m to 90.00m	1	30.00	0.60	0.50	9.00	
	Ch: 90.00m to 120.00m	1	30.00	0.60	0.50	9.00	
	Ch: 120.00m to 150.00m	1	30.00	0.60	0.50	9.00	
	Ch: 150.00m to 154.00m	1	4.00	0.60	0.50	1.20	
	Government High School Beside Rd						
	LHS						
	Ch: 0.00m to 30.00m	1	30.00	0.60	0.50	9.00	
	Ch: 30.00m to 60.00m	1	30.00	0.60	0.50	9.00	
	Ch: 60.00m to 66.00m	1	6.00	0.60	0.50	1.80	
	RHS						
	Ch: 0.00m to 30.00m	1	30.00	0.60	0.50	9.00	
	Ch: 30.00m to 60.00m	1	30.00	0.60	0.50	9.00	
					Total Qty	**149.25**	**Cum**
	Qty Paid in 1st Bill MB Vide Page No.				,	**88.71**	**Cum**
					Balance Qty to be Paid in 2nd Bill	**60.54**	**Cum**

Total Qty = 149.25 Cum
Qty paid vide page no 510701 = 88.71 Cum of MB book 5108
Balance Qty to be paid recorded vide page no. 4 of 63 in excel sheet of RA bill 2 = 60.54 Cum
@ Rs 214.50/- per Cum = Rs 129[illegible]

Contractor
Executive Engineer
Sub-division

SILICON CONSULTING ENGINEERS
Consultant

Asst. Engineer

Asst. Exec. Engineer
Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bruhat Bengaluru Mahanagara Palike

Name of Work: Repair and Improvements to drains Mandi Mariyappa Reddy main road in Mariyannapalya in ward No 07 Byatarayanapura

Detailed Measurements

Measurement Recorded On: 08.02.2022

Discription of Item	No	Length	Breadth	Depth	Qty	Unit
KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications.						
RCC Drain						
KV Jairam Rd to Aarav systems						
RHS						
Ch:0.00 to 30.00m	1	30.00	1.00	0.90	27.00	
Ch:30.00 to 60.00m	1	30.00	1.00	0.90	27.00	
Ch:60.00 to 80.80m	1	20.80	1.00	0.90	18.72	
Gap						
Ch:80.80 to 89.00m	1	8.20	1.00	0.90	7.38	
Ch:89.00 to 119.00m	1	30.00	1.00	0.90	27.00	
Ch:119.00 to 138.70m	1	19.70	1.00	0.90	17.73	
Gap						
Ch:138.70 to 147.90m	1	9.20	1.00	0.90	8.28	
Ch:147.90 to 166.20m	1	18.30	1.00	0.90	16.47	
Road Gap						
Ch:166.20 to 178.90m	1	12.70	1.00	0.90	11.43	
Ch:178.90 to 188.80m	1	9.90	1.00	0.90	8.91	
Ch:188.80 to 196.20m	1	7.40	1.00	0.90	6.66	
Gap						
Aarav systems to Kempegowda circle						
Ch:0.00 to 4.10m	1	4.10	1.00	0.90	3.69	
Ch:4.10m to 12.30m	1	8.20	1.40	0.90	10.33	
Ch:12.30m to 26.90m	1	14.60	1.40	1.00	20.44	
Ch:26.90m to 56.90m	1	30.00	1.40	1.00	42.00	
Ch:56.90m to 76.50m	1	19.60	1.40	1.00	27.44	
Ch:76.50m to 80.10m	1	3.60	1.40	1.00	5.04	
Ch:80.10m to 83.00m	1	2.90	1.40	1.00	4.06	
Culvert Gap						
Ch:83.00m to 100.80m	1	17.80	1.40	1.00	24.92	
Ch:100.80m to 115.20m	1	14.40	1.40	1.00	20.16	
Road Gap						
Ch:115.20m to 119.40m	1	4.20	1.40	1.00	5.88	

Assistant Executive Engineer, Road Infrastructure, Bruhat Bengaluru

Asst. Engineer

Consultant

Asst. Exec. Engineer

Assistant Executive Engineer, Road Infrastructure, (Yelahanka), Bruhat Bengaluru Mahanagara Palike

Discription of Item	No	Length	Breadth	Depth	Qty	Unit
Ch:119.40m to 135.10m	1	15.70	1.40	1.00	21.98	
Ch:135.10m to 140.50m	1	5.40	1.40	1.00	7.56	
Ch:140.50m to 145.50m	1	5.00	1.40	1.00	7.00	
Culvert gap						
Ch:145.50m to 149.40m	1	3.90	1.40	1.00	5.46	
Ch:149.40m to 152.80m	1	3.40	1.40	1.00	4.76	
Ch:152.80m to 176.80m	1	24.00	1.40	1.00	33.60	
Ch:176.80m to 186..80m	1	9.50	1.40	1.00	13.30	
Ch:186..80m to 216.30m	1	30.00	1.40	1.00	42.00	
Ch:216.30m to 234.30m	1	18.00	1.40	1.00	25.20	
Culvert gap						
Ch:234.30m to 248.60m	1	14.30	1.00	0.90	12.87	
Ch:248.60m to 254.40m	1	5.80	1.00	0.90	5.22	
Ch:254.40m to 266.00m	1	11.60	1.00	0.90	[illegible]	
Ch:266.00m to 270.80m	1	4.80	1.00	0.90	4.32	
Ch:270.80m to 279.50m	1	8.70	1.00	0.90	7.83	
Ch:279.50m to 283.10m	1	3.60	1.00	0.90	3.24	
Ch:283.10m to 289.00m	1	5.90	1.00	0.90	5.31	
RCC Culvert						
	1	7.10	2.00	1.00	14.20	
	1	8.60	2.00	1.00	17.20	
2nd bill						
RCC Drain						
Butterfly Garments Road						
LHS						
Ch:0.00m to 30.00m	1	30.00	1.00	0.90	27.00	
Ch:30.00m to 41.00m	1	11.00	1.00	0.90	9.90	
Kempegowda Circle						
RHS						
Ch:0.00m to 16.60m	1	16.60	1.00	0.90	14.94	
RCC Culvert						
Kempegowda Circle	1	12.00	2.00	1.00	24.00	
Balaji layout	1	10.50	2.00	1.00	21.00	
Asphalt Road						
Balaji layout						
Road 01						
Ch:0.00m to 19.00m	1	19.00	(6.00 + 5.90) / 2	0.30	33.92	
Road 02						
Ch:0.00m to 30.00m	1	30.00	(6.40 + 5.90) / 2	0.30	55.35	

Assistant Executive Engineer
Road Infrastructure, (Yelahanka
Bruhat Bengaluru Mahanagara
Bengaluru - 02.

SILICON CONSULTING ENGINEERS
Consultant

...ctor Engineer
Sub-division,
..P, Bangalore

Asst. Engineer

Asst. Exec. Engineer
Assistant Executive Engineer
Road Infrastructure, (Yelahanka

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Ch:30.00m to 59.00m	1	29.00	(5.90 + 6.30) / 2	0.30	53.07	
	Road 03						
	Ch:0.00m to 30.00m	1	30.00	(7.00 + 7.10) / 2	0.30	63.45	
	Ch:30.00m to 60.00m	1	30.00	(7.10 + 7.70) / 2	0.30	66.60	
	Ch:60.00m to 79.20m	1	19.20	(7.70 + 8.60) / 2	0.30	46.94	
	Road 04						
	Ch:0.00m to 30.00m	1	30.00	(7.50 + 6.10) / 2	0.30	61.20	
	Ch:30.00m to 60.00m	1	30.00	(6.10 + 6.10) / 2	0.30	54.90	
	Ch:60.00m to 79.00m	1	19.00	(6.10 + 6.70) / 2	0.30	36.48	
	Road 05						
	Ch:0.00m to 21.70m	1	21.70	(6.70 + 8.60) / 2	0.30	49.80	
	Road 06						
	Ch:0.00m to 5.00m	1	5.00	(5.00 + 4.70) / 2	0.30	7.28	
	Jakkur						
	From KV jayaraman Main Road to Butterfly Garments						
	Ch:0.00m to 30.00m	1	30.00	(3.00 + 3.00) / 2	0.30	27.00	
	Ch:30.00m to 60.00m	1	30.00	(3.00 + 3.00) / 2	0.30	27.00	
	Ch:60.00m to 90.00m	1	30.00	(3.00 + 3.00) / 2	0.30	27.00	
	Ch:90.00m to 120.00m	1	30.00	(3.00 + 3.00) / 2	0.30	27.00	
	Ch:120.00m to 150.00m	1	30.00	(3.00 + 3.00) / 8	0.30	27.00	
	Ch:150.00m to 180.00m	1	30.00	(3.00 + 3.00) / 2	0.30	27.00	
	Ch:180.00m to 195.20m	1	15.20	(3.00 + 3.00) / 2	0.30	13.68	
	Ch:195.20m to 213.20m	1	18.00	(3.00 + 3.00) / 2	0.30	16.20	

Executive Engineer, Sub-division, ...P, Bangalore — Consultant (SILICON CONSULTING ENGINEERS) — Asst. Engineer — Asst. Exec. Engineer

Assistant Executive Engineer, Road Infrastructure, Bruhat Bengaluru

Discription of Item	No	Length	Breadth	Depth	Qty	Unit
Ch:213.20m to 231.20m	1	18.00	(3.00 + 3.00) / 2	0.30	16.20	
Ch:231.20m to 261.20m	1	30.00	(3.00 + 3.00) / 2	0.30	27.00	
Ch:261.20m to 262.20m	1	1.00	(3.00 + 3.00) / 2	0.30	0.90	
Ch:262.20m to 292.20m	1	30.00	(15.60 + 21.00) / 2	0.30	164.70	
Ch:292.20m to 302.20m	1	10.00	(21.00 + 26.00) / 2	0.30	70.50	
Ch:302.20m to 313.40m	1	11.20	(26.00 + 33.00) / 2	0.30	99.12	
Ch:313.40m to 317.40m	1	4.00	(33.00 + 30.00) / 2	0.30	37.80	
From Butterfly Garments to Kempegowda Circle						
Ch:0.00m to 19.00m	1	19.00	(2.50 + 2.50) / 2	0.30	14.25	
Ch:19.00m to 49.00m	1	30.00	(2.50 + 2.50) / 2	0.30	22.50	
Ch:49.00m to 51.00m	1	2.00	(2.50 + 2.50) / 2	0.30	1.50	
Ch:51.00m to 61.50m	1	10.50	(2.50 + 2.50) / 2	0.30	7.88	
Ch:61.50m to 85.50m	1	24.00	(2.50 + 2.50) / 8	0.30	18.00	
Ch:85.50m to 91.50m	1	6.00	(2.50 + 2.50) / 2	0.30	4.50	
Ch:91.50m to 101.00m	1	9.50	(2.50 + 2.50) / 2	0.30	7.13	
Ch:101.00m to 115.00m	1	14.00	(2.50 + 2.50) / 2	0.30	10.50	
Ch:115.50m to 128.00m	1	13.00	(2.50 + 2.50) / 2	0.30	9.75	
Ch:128.00m to 149.00m	1	21.00	(2.50 + 2.50) / 2	0.30	15.75	
Ch:159.00m to 157.00m	1	8.00	(2.50 + 2.50) / 2	0.30	6.00	
Ch:167.00m to 187.00m	1	30.00	(2.50 + 2.50) / 2	0.30	22.50	
Ch:187.00m to 214.70m	1	27.70	(2.50 + 2.50) / 2	0.30	20.78	

...ative Engineer, Sub-division, ...P, Bangalore

SILICON CONSULTING ENGINEERS Consultant

Asst. Engineer

Assistant Executive Engineer
Road Infrastructure, (Yelahanka ...
Bruhat Bengaluru Mahanagara ...

Discription of Item	No	Length	Breadth	Depth	Qty	Unit
Ch:214.70m to 222.30	1	7.60	(2.50 + 2.50) / 2	0.30	5.70	
Ch:222.30m to 247.30m	1	25.00	(2.50 + 2.50) / 2	0.30	18.75	
Ch:247.30m to 255.30m	1	8.00	(2.50 + 2.50) / 2	0.30	6.00	
Ch:255.30m to 268.80m	1	13.50	(2.50 + 9.00) / 2	0.30	23.29	
Ch:268.80m to 278.10m	1	9.30	(10.10 + 11.80) / 2	0.30	30.55	
Ch:278.10m to 308.10m	1	30.00	(13.40 + 22.00) / 2	0.30	159.30	
Ch:308.10m to 317.60m	1	9.50	(15.00 + 25.00) / 2	0.30	57.00	
From Kempegowda Circle to Organic Valley Shop						
Ch:0.00m to 30.00m	1	30.00	(12.30 + 12.00) / 2	0.30	109.35	30.00
Ch:30.00m to 52.60m	1	22.60	(12.00 + 10.80) / 2	0.30	77.29	22.60
Ch:52.60m to 54.40m CD Gap		1.80				
Ch:54.40m to 84.40m	1	30.00	(10.80 + 8.40) / 2	0.30	86.40	30.00
Ch:84.40m to 87.90m	1	3.50	(8.40 + 8.40) / 2	0.30	8.82	3.50
Deduction of Flag Portion	1	-4.00	(2.50 + 2.50) / 2	0.30	-3.00	
Government High School Beside Rd						
Ch:0.00m to 30.00m	1	30.00	(2.50 + 2.00) / 2	0.30	20.25	
Ch:30.00m to 60.00m	1	30.00	(2.00 + 2.50) / 2	0.30	20.25	
Ch:60.00m to 84.60m	1	24.60	(2.50 + 2.50) / 2	0.30	18.45	
				Total Qty	**2615.38**	**Cum**
			Qty Paid in 1st Bill MB Vide Page No.	,	**582.03**	**Cum**
				Balance Qty to be Paid in 2nd Bill	**2033.35**	**Cum**

Total Qty = 2615.38 Cum

Qty paid vide page no. 510701 of MB 5108 = 582.03 Cum

Balance Qty to be paid recorded vide page no. 9 of 63 in excel sheet MB of RA bill 2 = 2033.35 Cum

@ 57.02 = Rs. 115941.65/-

...Engineer ...b-division Bangalore

SILICON CONSULTING ENGINEERS Consultant

Asst. Engineer

Asst. Exec. Engineer

Assistant Executive Engineer Road Infrastructure, (Yelahanka D

Name of Work: Repair and Improvements to drains Mandi Mariyappa Reddy main road in Mariyannapalya in ward No 07 Byatarayanapura

Detailed Measurements

Measurement Recorded On: 07.02.2022

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
1	KSRRB M2100-10. Providing and laying **Plain cement concrete** of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications.						
	RCC Drain						
	KV Jairam Rd to Aarav systems						
	RHS						
	Ch:0.00 to 30.00m	1	30.00	1.00	0.10	3.00	
	Ch:30.00 to 60.00m	1	30.00	1.00	0.10	3.00	
	Ch:60.00 to 80.80m	1	20.80	1.00	0.10	2.08	
	Gap						
	Ch:80.80 to 89.00m	1	8.20	1.00	0.10	0.82	
	Ch:89.00 to 119.00m	1	30.00	1.00	0.10	3.00	
	Ch:119.00 to 138.70m	1	19.70	1.00	0.10	1.97	
	Gap						
	Ch:138.70 to 147.90m	1	9.20	1.00	0.10	0.92	
	Ch:147.90 to 166.20m	1	18.30	1.00	0.10	1.83	
	Road Gap						
	Ch:166.20 to 178.90m	1	12.70	1.00	0.10	1.27	
	Ch:178.90 to 188.80m	1	9.90	1.00	0.10	0.99	
	Ch:188.80 to 196.20m	1	7.40	1.00	0.10	0.74	
	Gap						
	Aarav systems to Kempegowda circle						
	Ch:0.00 to 4.10m	1	4.10	1.00	0.10	0.41	
	Ch:4.10m to 12.30m	1	8.20	1.40	0.10	1.15	
	Ch:12.30m to 26.90m	1	14.60	1.40	0.10	2.04	
	Ch:26.90m to 56.90m	1	30.00	1.40	0.10	4.20	
	Ch:56.90m to 76.50m	1	19.60	1.40	0.10	2.74	
	Ch:76.50m to 80.10m	1	3.60	1.40	0.10	0.50	
	Ch:80.10m to 83.00m	1	2.90	1.40	0.10	0.41	
	Culvert Gap						
	Ch:83.00m to 100.80m	1	17.80	1.40	0.10	2.49	
	Ch:100.80m to 115.20m	1	14.40	1.40	0.10	2.02	
	Road Gap						
	Ch:115.20m to 119.40m	1	4.20	1.40	0.10	0.59	

Contractor / Executive Engineer Sub-division, BBMP, Bangalore — SILICON CONSULTING ENGINEERS — Consultant

Asst. Engineer

Asst. Exec. Engineer — Assistant Executive Engineer, Road Infrastructure, (Yelahanka Div

m o	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
	Ch:119.40m to 135.10m	1	15.70	1.40	0.10	2.20	
	Ch:135.10m to 140.50m	1	5.40	1.40	0.10	0.76	
	Ch:140.50m to 145.50m	1	5.00	1.40	0.10	0.70	
	Culvert gap						
	Ch:145.50m to 149.40m	1	3.90	1.40	0.10	0.55	
	Ch:149.40m to 152.80m	1	3.40	1.40	0.10	0.48	
	Ch:152.80m to 176.80m	1	24.00	1.40	0.10	3.36	
	Ch:176.80m to 186..80m	1	9.50	1.40	0.10	1.33	
	Ch:186..80m to 216.30m	1	30.00	1.40	0.10	4.20	
	Ch:216.30m to 234.30m	1	18.00	1.40	0.10	2.52	
	Culvert gap						
	Ch:234.30m to 248.60m	1	14.30	1.00	0.10	1.43	
	Ch:248.60m to 254.40m	1	5.80	1.00	0.10	0.58	
	Ch:254.40m to 266.00m	1	11.60	1.00	0.10	1.16	
	Ch:266.00m to 270.80m	1	4.80	1.00	0.10	0.48	
	Ch:270.80m to 279.50m	1	8.70	1.00	0.10	0.87	
	Ch:279.50m to 283.10m	1	3.60	1.00	0.10	0.36	
	Ch:283.10m to 289.00m	1	5.90	1.00	0.10	0.59	
	For Concrete Band						
	KV Jairam Rd to Aarav systems						
	RHS						
	Ch:0.00 to 30.00m	1	30.00	0.15	0.10	0.45	
	Ch:30.00 to 60.00m	1	30.00	0.15	0.10	0.45	
	Ch:60.00 to 80.80m	1	20.80	0.15	0.10	0.31	
	Gap						
	Ch:80.80 to 89.00m	1	8.20	0.15	0.10	0.12	
	Ch:89.00 to 119.00m	1	30.00	0.15	0.10	0.45	
	Ch:119.00 to 138.70m	1	19.70	0.15	0.10	0.30	
	Gap						
	Ch:138.70 to 147.90m	1	9.20	0.15	0.10	0.14	
	Ch:147.90 to 166.20m	1	18.30	0.15	0.10	0.27	
	Road Gap						
	Ch:166.20 to 178.90m	1	12.70	0.15	0.10	0.19	
	Ch:178.90 to 188.80m	1	9.90	0.15	0.10	0.15	
	Ch:188.80 to 196.20m	1	7.40	0.15	0.10	0.11	
	Gap						
	Aarav systems to Kempegowda circle						
	Ch:196.20 to 200.30m	1	4.10	0.15	0.10	0.06	
	Ch:200.30 to 208.50m	1	8.20	0.15	0.10	0.12	
	Ch:208.50 to 223.10m	1	14.60	0.15	0.10	0.22	
	Ch:223.10 to 253.10m	1	30.00	0.15	0.10	0.45	

...Engineer
...b-division,
Bangalore

SILICON CONSULTING ENGINEERS

Consultant

Asst. Engineer

Asst. Exec. Engineer

Assistant Executive Engine...
Road Infrastructure, (Yelahanka Di...

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
	Ch:253.10 to 272.70m	1	19.60	0.15	0.10	0.29	
	Ch:272.70 to 276.30m	1	3.60	0.15	0.10	0.05	
	Ch:276.30 to 279.20m	1	2.90	0.15	0.10	0.04	
	Culvert Gap						
	Ch:279.20 to 297.00m	1	17.80	0.15	0.10	0.27	
	Ch:297.00 to 311.40m	1	14.40	0.15	0.10	0.22	
	Road Gap						
	Ch:311.40 to 315.60m	1	4.20	0.15	0.10	0.06	
	Ch:315.60 to 331.30m	1	15.70	0.15	0.10	0.24	
	Ch:331.30 to 336.70m	1	5.40	0.15	0.10	0.08	
	Ch:336.70 to 341.70m	1	5.00	0.15	0.10	0.08	
	Culvert gap						
	Ch:341.70 to 345.60m	1	3.90	0.15	0.10	0.06	
	Ch:345.60 to 349.00m	1	3.40	0.15	0.10	0.05	
	Ch:349.00 to 373.00m	1	24.00	0.15	0.10	0.36	
	Ch:373.00 to 382.50m	1	9.50	0.15	0.10	0.14	
	Ch:382.50 to 412.50m	1	30.00	0.15	0.10	0.45	
	Ch:412.50 to 430.50m	1	18.00	0.15	0.10	0.27	
	Culvert gap						
	Ch:430.50 to 444.80m	1	14.30	0.15	0.10	0.21	
	Ch:444.80 to 450.60m	1	5.80	0.15	0.10	0.09	
	Ch:450.60 to 462.20m	1	11.60	0.15	0.10	0.17	
	Ch:462.20 to 467.00m	1	4.80	0.15	0.10	0.07	
	Ch:467.00 to 475.70m	1	8.70	0.15	0.10	0.13	
	Ch:475.70 to 479.30m	1	3.60	0.15	0.10	0.05	
	Ch:479.30 to 485.20m	1	5.90	0.15	0.10	0.09	
	RCC Culvert						
		1	7.10	1.80	0.15	1.92	
		1	8.60	1.80	0.15	2.32	
	2nd bill						
	RCC Drain						
	Butterfly Garments Road						
	LHS						
	Ch:0.00m to 30.00m	1	30.00	1.00	0.10	3.00	
	Ch:30.00m to 41.00m	1	11.00	1.00	0.10	1.10	
	Kempegowda Circle						
	RHS						
	Ch:0.00m to 16.60m	1	16.60	1.00	0.08	1.33	

Assistant E... Road Infrastruc... Bruhat Beng... B...

...tive Engineer ...ector Sub-division, ...P, Bangalore

SILICON CONSULTING ENGINEERS Consultant

Asst. Engineer

Assistant Executive Engineer Road Infrastructure, (Yelahanka D...) Bruhat Bengaluru Mahanagara...

Name of Work: Repair and Improvements to drains Mandi Mariyappa Reddy main road in Mariyannapalya in ward No 07 Byatarayanapura

Detailed Measurements

Measurement Recorded On: 14.02.2022

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
5	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 10cm including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge						
	RCC Drain Raft						
	KV Jairam Rd to Aarav systems						
	RHS						
	Ch:0.00 to 30.00m	1	30.00	0.90	0.10	2.70	
	Ch:30.00 to 60.00m	1	30.00	0.90	0.10	2.70	
	Ch:60.00 to 80.80m	1	20.80	0.90	0.10	1.87	
	Gap						
	Ch:80.80 to 89.00m	1	8.20	0.90	0.10	0.74	
	Ch:89.00 to 119.00m	1	30.00	0.90	0.10	2.70	
	Ch:119.00 to 138.70m	1	19.70	0.90	0.10	1.77	
	Gap						
	Ch:138.70 to 147.90m	1	9.20	0.90	0.10	0.83	
	Ch:147.90 to 166.20m	1	18.30	0.90	0.10	1.65	
	Road Gap						
	Ch:166.20 to 178.90m	1	12.70	0.90	0.10	1.14	
	Ch:178.90 to 188.80m	1	9.90	0.90	0.10	0.89	
	Ch:188.80 to 196.20m	1	7.40	0.90	0.10	0.67	
	Gap						
	Aarav systems to Kempegowda circle						
	Ch:0.00 to 4.10m	1	4.10	0.90	0.10	0.37	
	Ch:4.10m to 12.30m	1	8.20	1.20	0.10	0.98	
	Ch:12.30m to 26.90m	1	14.60	1.20	0.10	1.75	
	Ch:26.90m to 56.90m	1	30.00	1.20	0.10	3.60	
	Ch:56.90m to 76.50m	1	19.60	1.20	0.10	2.35	
	Ch:76.50m to 80.10m	1	3.60	1.20	0.10	0.43	
	Ch:80.10m to 83.00m	1	2.90	1.20	0.10	0.35	
	Culvert Gap						
	Ch:83.00m to 100.80m	1	17.80	1.20	0.10	2.14	

Project Engineer, Sub-division, P, Bangalore | SILICON CONSULTING ENGINEERS Consultant | Asst. Engineer | Asst. Exec. Engineer

Assistant Executive ... Road Infrastructure, (Yela...

Discription of Item	No	Length	Breadth	Depth	Qty	Unit
Ch:100.80m to 115.20m	1	14.40	1.20	0.10	1.73	
Road Gap						
Ch:115.20m to 119.40m	1	4.20	1.20	0.10	0.50	
Ch:119.40m to 135.10m	1	15.70	1.20	0.10	1.88	
Ch:135.10m to 140.50m	1	5.40	1.20	0.10	0.65	
Ch:140.50m to 145.50m	1	5.00	1.20	0.10	0.60	
Culvert gap						
Ch:145.50m to 149.40m	1	3.90	1.20	0.10	0.47	
Ch:149.40m to 152.80m	1	3.40	1.20	0.10	0.41	
Ch:152.80m to 176.80m	1	24.00	1.20	0.10	2.88	
Ch:176.80m to 186..80m	1	9.50	1.20	0.10	1.14	
Ch:186..80m to 216.30m	1	30.00	1.20	0.10	3.60	
Ch:216.30m to 234.30m	1	18.00	1.20	0.10	2.16	
Culvert gap						
Ch:234.30m to 248.60m	1	14.30	0.90	0.10	1.29	
Ch:248.60m to 254.40m	1	5.80	0.90	0.10	0.52	
Ch:254.40m to 266.00m	1	11.60	0.90	0.10	1.04	
Ch:266.00m to 270.80m	1	4.80	0.90	0.10	0.43	
Ch:270.80m to 279.50m	1	8.70	0.90	0.10	0.78	
Ch:279.50m to 283.10m	1	3.60	0.90	0.10	0.32	
Ch:283.10m to 289.00m	1	5.90	0.90	0.10	0.53	
RCC Drain Wall						
KV Jairam Rd to Aarav systems						
RHS						
Ch:0.00 to 30.00m	2	30.00	0.10	0.60	3.60	
Ch:30.00 to 60.00m	2	30.00	0.10	0.60	3.60	
Ch:60.00 to 80.80m	2	20.80	0.10	0.60	2.50	
Gap						
Ch:80.80 to 89.00m	2	8.20	0.10	0.60	0.98	
Ch:89.00 to 119.00m	2	30.00	0.10	0.60	3.60	
Ch:119.00 to 138.70m	2	19.70	0.10	0.60	2.36	
Gap						
Ch:138.70 to 147.90m	2	9.20	0.10	0.35	0.64	
Ch:147.90 to 166.20m	2	18.30	0.10	0.60	2.20	
Road Gap						
Ch:166.20 to 178.90m	2	12.70	0.10	0.60	1.52	
Ch:178.90 to 188.80m	2	9.90	0.10	0.60	1.19	
Ch:188.80 to 196.20m	2	7.40	0.10	0.60	0.89	
Gap						
Aarav systems to Kempegowda circle						
Ch:0.00 to 4.10m	2	4.10	0.10	0.60	0.49	

...ctor Engineer, Sub-division, Bangalore

SILICON CONSULTING ENGINEERS Consultant

Asst. Engineer

Assistant Executive Engineer
Asst. Executive Engineer, Yelahanka
Road Infrastructure
Bruhat Bengaluru Mahanagara
Bengaluru - 02.

Discription of Item	No	Length	Breadth	Depth	Qty	Unit
Ch:4.10m to 12.30m	2	8.20	0.10	0.60	0.98	
Ch:12.30m to 26.90m	2	14.60	0.10	0.60	1.75	
Ch:26.90m to 56.90m	2	30.00	0.10	0.60	3.60	
Ch:56.90m to 76.50m	2	19.60	0.10	0.60	2.35	
Ch:76.50m to 80.10m	2	3.60	0.10	0.60	0.43	
Ch:80.10m to 83.00m	2	2.90	0.10	0.60	0.35	
Culvert Gap						
Ch:83.00m to 100.80m	2	17.80	0.10	0.65	2.31	
Ch:100.80m to 115.20m	2	14.40	0.10	0.70	2.02	
Road Gap						
Ch:115.20m to 119.40m	2	4.20	0.10	0.60	0.50	
Ch:119.40m to 135.10m	2	15.70	0.10	0.60	1.88	
Ch:135.10m to 140.50m	2	5.40	0.10	0.60	0.65	
Ch:140.50m to 145.50m	2	5.00	0.10	0.60	0.60	
Culvert gap						
Ch:145.50m to 149.40m	2	3.90	0.10	0.60	0.47	
Ch:149.40m to 152.80m	2	3.40	0.10	0.60	0.41	
Ch:152.80m to 176.80m	2	24.00	0.10	0.60	2.88	
Ch:176.80m to 186..80m	2	9.50	0.10	0.60	1.14	
Ch:186..80m to 216.30m	2	30.00	0.10	0.65	3.90	
Ch:216.30m to 234.30m	2	18.00	0.10	0.60	2.16	
Culvert gap						
Ch:234.30m to 248.60m	2	14.30	0.10	0.70	2.00	
Ch:248.60m to 254.40m	2	5.80	0.10	0.70	0.81	
Ch:254.40m to 266.00m	2	11.60	0.10	0.70	1.62	
Ch:266.00m to 270.80m	2	4.80	0.10	0.70	0.67	
Ch:270.80m to 279.50m	2	8.70	0.10	0.70	1.22	
Ch:279.50m to 283.10m	2	3.60	0.10	0.70	0.50	
Ch:283.10m to 289.00m	2	5.90	0.10	0.70	0.83	
RCC Culvert Raft						
	1	7.10	1.50	0.20	2.13	
	1	8.60	1.50	0.20	2.58	
RCC Culvert Wall						
	2	7.10	0.23	0.50	1.63	
	2	8.60	0.23	0.50	1.98	
2nd bill						
RCC Drain Raft						
Butterfly Garments Road						
LHS						
Ch:0.00m to 30.00m	1	30.00	0.90	0.10	2.70	
Ch:30.00m to 41.00m	1	11.00	0.90	0.10	0.99	
Kempegowda Circle						

Executive Engineer, Sub-division, Bangalore

SILICON CONSULTING ENGINEERS Consultant

Asst. Engineer

Asst. Exec. Engineer
Assistant Executive Engineer
Road Infrastructure (Yelahanka)

Name of Work: Repair and Improvements to drains Mandi Mariyappa Reddy main road in Mariyannapalya in ward No 07 Byatarayanapura							
Detailed Measurements							
Measurement Recorded On: 10·01·2022							
Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge						
	RCC Drain						
	Jakkur road						
	RHS						
	Total Drain Length=485.20m						
	Main Bar 10mm dia @235mm c/c						
	d=0.61kg/m						
	Distrubution Bar 10mm dia @220mm c/c						
	d=0.61kg/m						
	No of U Bars=2064	2064	2.00		0.61	2518.08	
	No of distrubution Bars=10	10	485.20		0.61	2959.72	
	Culvert						
	LHS From End						
	Total Drain Length=15.70m						
	Main Bar 10mm dia @200mm c/c						
	d=0.89kg/m						
	Distrubution Bar 10mm dia @200mm c/c						
	d=0.61kg/m						
	No of U Bars=157	157	2.50		0.61	239.43	
	No of distrubution Bars=22	22	15.70		0.61	210.69	
	2nd bill						
	Butterfly Garments Road						
	LHS						
	Total Drain Length=41.00m						
	Main Bar 10mm dia @235mm c/c						
	d=0.61kg/m						
	Distrubution Bar 10mm dia @220mm c/c						
	d=0.61kg/m						
	No of U Bars=175	175	2.00		0.61	213.50	
	No of distrubution Bars=10	10	41.00		0.61	250.10	
	Kempegowda Circle						
	RHS						
	Total Drain Length=16.60m						

Executive Engineer, Sub-division, ...MP, Bangalore

SILICON CONSULTING ENGINEERS Consultant

Asst. Engineer

Asst. Exec. Engineer
Assistant Executive Engineer
Road Infrastructure, (Yelahanka D...

Name of Work: Repair and Improvements to drains Mandi Mariyappa Reddy main road in Mariyannapalya in ward No 07 Byatarayanapura

Detailed Measurements

surement Recorded On: 18.02.2022

n	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing by mix in place method by rotavator at OMC,spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications including all lead and lead including loading and unloading and						
	Kerb Stone						
	Jakkur road						
	RHS						
	Ch:0.00 to 30.00m	1	30.00	0.20	0.10	0.60	
	Ch:30.00 to 60.00m	1	30.00	0.20	0.10	0.60	
	Ch:60.00 to 80.80m	1	20.80	0.20	0.10	0.42	
	Gap						
	Ch:80.80 to 89.00m	1	8.20	0.20	0.10	0.16	
	Ch:89.00 to 119.00m	1	30.00	0.20	0.10	0.60	
	Ch:119.00 to 138.70m	1	19.70	0.20	0.10	0.39	
	Gap						
	Ch:138.70 to 147.90m	1	9.20	0.20	0.10	0.18	
	Ch:147.90 to 166.20m	1	18.30	0.20	0.10	0.37	
	Road Gap						
	Gap						
	Ch:196.20 to 200.30m	1	4.10	0.20	0.10	0.08	
	Ch:200.30 to 208.50m	1	8.20	0.20	0.10	0.16	
	Ch:208.50 to 223.10m	1	14.60	0.20	0.10	0.29	
	Ch:223.10 to 253.10m	1	30.00	0.20	0.10	0.60	
	Ch:253.10 to 272.70m	1	19.60	0.20	0.10	0.39	
	Ch:272.70 to 276.30m	1	3.60	0.20	0.10	0.07	
	Ch:276.30 to 279.20m	1	2.90	0.20	0.10	0.06	
	Culvert Gap						
	Ch:279.20 to 297.00m	1	17.80	0.20	0.10	0.36	
	Ch:297.00 to 311.40m	1	14.40	0.20	0.10	0.29	
	Road Gap						
	Ch:311.40 to 333.10m	1	21.70	0.20	0.10	0.43	
	Ch:333.10 to 337.30m	1	4.20	0.20	0.10	0.08	
	Ch:337.30 to 353.00m	1	15.70	0.20	0.10	0.31	
	Ch:353.00 to 358.40m	1	5.40	0.20	0.10	0.11	
	Ch:358.40 to 363.40m		5.00				
	Culvert gap						

...tive Engineer / ...actor / Sub-division, / ..., Bangalore

SILICON CONSULTING ENGINEERS / Consultants

Asst. Engineer

Assistant Executive Engineer / Asst. Exec. Engineer / Road Infrastructure, (Yelahanka D...) / Bruhat Bengaluru Mahanagara ...

Discription of Item	No	Length	Breadth	Depth	Qty	Unit
Ch:363.40 to 367.30m	1	3.90	0.20	0.10	0.08	
Ch:367.30 to 370.70m	1	3.40	0.20	0.10	0.07	
Ch:370.70 to 394.70m	1	24.00	0.20	0.10	0.48	
Ch:394.70 to 404.20m	1	9.50	0.20	0.10	0.19	
Ch:404.20m to 434.20m	1	30.00	0.20	0.10	0.60	
Ch:434.20 to 452.20m	1	18.00	0.20	0.10	0.36	
Culvert gap						
Ch:452.20 to 466.50m	1	14.30	0.20	0.10	0.29	
Ch:466.50 to 472.30m		5.80				
Ch:472.30 to 483.90m	1	11.60	0.20	0.10	0.23	
Ch:483.90 to 488.70m		4.80				
Ch:488.70 to 497.40m	1	8.70	0.20	0.10	0.17	
Ch:497.40 to 501.00m		3.60				
Ch:501.00 to 506.90m	1	5.90	0.20	0.10	0.12	
2nd Bill						
Government High School Beside Rd						
LHS						
Ch: 0.00m to 30.00m	1	30.00	0.20	0.10	0.60	
Ch: 30.00m to 60.00m	1	30.00	0.20	0.10	0.60	
Ch: 60.00m to 65.00m	1	5.00	0.20	0.10	0.10	
RHS						
Ch: 0.00m to 30.00m	1	30.00	0.20	0.10	0.60	
Ch: 30.00m to 60.00m	1	30.00	0.20	0.10	0.60	
Ch: 60.00m to 65.00m	1	5.00	0.20	0.10	0.10	
Govt School Road						
LHS						
Ch: 0.00m to 30.00m	1	30.00	0.20	0.10	0.60	
Ch: 30.00m to 60.00m	1	30.00	0.20	0.10	0.60	
Ch: 60.00m to 90.00m	1	30.00	0.20	0.10	0.60	
Ch: 90.00m to 120.00m	1	30.00	0.20	0.10	0.60	
Ch: 120.00m to 137.00m	1	17.00	0.20	0.10	0.34	
Road Gap						
Ch: 137.00m to 167.00m	1	30.00	0.20	0.10	0.60	
Ch: 167.00m to 197.00m	1	30.00	0.20	0.10	0.60	
Ch: 197.00m to 227.00m	1	30.00	0.20	0.10	0.60	
Ch: 227.00m to 257.00m	1	30.00	0.20	0.10	0.60	
Ch: 257.00m to 287.00m	1	30.00	0.20	0.10	0.60	
Ch: 287.00m to 291.00m	1	4.00	0.20	0.10	0.08	
KV Jayaram Road to Butterfly Garments						
LHS						

Assistant Executive Engineer
Road Infrastructure
Bruhat Bengaluru

SRICON CONSULTING ENGINEERS

...torEngineer Consultant
...ub-division,
Bangalore

Asst. Engineer

Assistant Executive Engineer
Road Infrastructure, (Yelahanka ...)
... Bengaluru Mahanagara ...

Discription of Item	No	Length	Breadth	Depth	Qty	Unit
Ch: 0.00m to 30.00m	1	30.00	0.20	0.10	0.60	
Ch: 30.00m to 60.00m	1	30.00	0.20	0.10	0.60	
Ch: 60.00m to 90.00m	1	30.00	0.20	0.10	0.60	
Ch: 90.00m to 120.00m	1	30.00	0.20	0.10	0.60	
Ch: 120.00m to 150.00m	1	30.00	0.20	0.10	0.60	
Ch: 150.00m to 180.00m	1	30.00	0.20	0.10	0.60	
Ch: 180.00m to 210.00m	1	30.00	0.20	0.10	0.60	
Ch: 210.00m to 240.00m	1	30.00	0.20	0.10	0.60	
Ch: 240.00m to 270.00m	1	30.00	0.20	0.10	0.60	
Ch: 270.00m to 300.00m	1	30.00	0.20	0.10	0.60	
Ch: 300.00m to 316.00m	1	16.00	0.20	0.10	0.32	
Asphalt Road						
Balaji layout						
Road 01						
Ch:0.00m to 19.00m	1	19.00	(6.00 + 5.90) / 2	0.15	16.96	
Road 02						
Ch:0.00m to 30.00m	1	30.00	(6.40 + 5.90) / 2	0.15	27.68	
Ch:30.00m to 59.00m	1	29.00	(5.90 + 6.30) / 2	0.15	26.54	
Road 03						
Ch:0.00m to 30.00m	1	30.00	(7.00 + 7.10) / 2	0.15	31.73	
Ch:30.00m to 60.00m	1	30.00	(7.10 + 7.70) / 2	0.15	33.30	
Ch:60.00m to 79.20m	1	19.20	(7.70 + 8.60) / 2	0.15	23.47	
Road 04						
Ch:0.00m to 30.00m	1	30.00	(7.50 + 6.10) / 2	0.15	30.60	
Ch:30.00m to 60.00m	1	30.00	(6.10 + 6.10) / 2	0.15	27.45	
Ch:60.00m to 79.00m	1	19.00	(6.10 + 6.70) / 2	0.15	18.24	
Road 05						
Ch:0.00m to 21.70m	1	21.70	(6.70 + 8.60) / 2	0.15	24.90	
Road 06						
Ch:0.00m to 5.00m	1	5.00	(5.00 + 4.70) / 2	0.15	3.64	
Jakkur						

Executive Engineer, Sub-division, Bangalore

SILICON CONSULTING ENGINEERS — Consultant

Asst. Engineer

Assistant Executive Engineer, Road Infrastructure (Yelahanka Division), Bruhat Bengaluru Mahanagara Palike, Bengaluru - 02

Discription of Item	No	Length	Breadth	Depth	Qty	Unit
From KV jayaraman Main Road to Butterfly Garments						
Ch:0.00m to 30.00m	1	30.00	(3.00 + 3.00) / 2	0.15	13.50	
Ch:30.00m to 60.00m	1	30.00	(3.00 + 3.00) / 2	0.15	13.50	
Ch:60.00m to 90.00m	1	30.00	(3.00 + 3.00) / 2	0.15	13.50	
Ch:90.00m to 120.00m	1	30.00	(3.00 + 3.00) / 2	0.15	13.50	
Ch:120.00m to 150.00m	1	30.00	(3.00 + 3.00) / 2	0.15	13.50	
Ch:150.00m to 180.00m	1	30.00	(3.00 + 3.00) / 2	0.15	13.50	
Ch:180.00m to 195.20m	1	15.20	(3.00 + 3.00) / 2	0.15	6.84	
Ch:195.20m to 213.20m	1	18.00	(3.00 + 3.00) / 2	0.15	8.10	
Ch:213.20m to 231.20m	1	18.00	(3.00 + 3.00) / 2	0.15	8.10	
Ch:231.20m to 261.20m	1	30.00	(3.00 + 3.00) / 2	0.15	13.50	
Ch:261.20m to 262.20m	1	1.00	(3.00 + 3.00) / 2	0.15	0.45	
Ch:262.20m to 292.20m	1	30.00	(15.60 + 21.00) / 2	0.15	82.35	
Ch:292.20m to 302.20m	1	10.00	(21.00 + 26.00) / 2	0.15	35.25	
Ch:302.20m to 313.40m	1	11.20	(26.00 + 33.00) / 2	0.15	49.56	
Ch:313.40m to 317.40m	1	4.00	(33.00 + 30.00) / 2	0.15	18.90	
From Butterfly Garments to Kempegowda Circle						
Ch:0.00m to 19.00m	1	19.00	(2.50 + 2.50) / 2	0.15	7.13	
Ch:19.00m to 49.00m	1	30.00	(2.50 + 2.50) / 2	0.15	11.25	
Ch:49.00m to 51.00m	1	2.00	(2.50 + 2.50) / 2	0.15	0.75	
Ch:51.00m to 61.50m	1	10.50	(2.50 + 2.50) / 2	0.15	3.94	

SILICON CONSULTING ENGINEERS
Consultant

...ise Engineer
...ub-division
..., Bangalore

Asst. Engineer

Asst. Exec. Engineer

Discription of Item	No	Length	Breadth	Depth	Qty	Unit
Ch:61.50m to 85.50m	1	24.00	2.50 + 2.50 / 8	0.15	9.00	
Ch:85.50m to 91.50m	1	6.00	2.50 + 2.50 / 2	0.15	2.25	
Ch:91.50m to 101.00m	1	9.50	2.50 + 2.50 / 2	0.15	3.56	
Ch:101.00m to 115.00m	1	14.00	2.50 + 2.50 / 2	0.15	5.25	
Ch:115.50m to 128.00m	1	13.00	2.50 + 2.50 / 2	0.15	4.88	
Ch:128.00m to 149.00m	1	21.00	2.50 + 2.50 / 2	0.15	7.88	
Ch:159.00m to 157.00m	1	8.00	2.50 + 2.50 / 2	0.15	3.00	
Ch:167.00m to 187.00m	1	30.00	2.50 + 2.50 / 2	0.15	11.25	
Ch:187.00m to 214.70m	1	27.70	2.50 + 2.50 / 2	0.15	10.39	
Ch:214.70m to 222.30	1	7.60	2.50 + 2.50 / 2	0.15	2.85	
Ch:222.30m to 247.30m	1	25.00	2.50 + 2.50 / 2	0.15	9.38	
Ch:247.30m to 255.30m	1	8.00	2.50 + 2.50 / 2	0.15	3.00	
Ch:255.30m to 268.80m	1	13.50	2.50 + 2.50 / 2	0.15	5.06	
Ch:268.80m to 278.10m	1	9.30	2.50 + 2.50 / 2	0.15	3.49	
Ch:278.10m to 308.10m	1	30.00	10.00 + 10.00 / 2	0.15	45.00	
Ch:308.10m to 317.60m	1	9.50	22.00 + 25.00 / 2	0.15	33.49	
From Kempegowda Circle to Organic Valley Shop						
Ch:0.00m to 30.00m	1	30.00	12.30 + 12.00 / 2	0.15	54.68	
Ch:30.00m to 52.60m	1	22.60	12.00 + 10.80 / 2	0.15	38.65	
Ch:52.60m to 54.40m CD Gap	1	1.80				
Ch:54.40m to 84.40m	1	30.00	10.80 + 8.40 / 2	0.15	43.20	

...Engineer, ...Division, Bangalore

SRICON CONSULTING ENGINEERS — Consultant

Asst. Engineer

Assistant Executive Engineer, Road Infrastructure, (Yelahanka Division), Bruhat Bengaluru Mahanagara Palike

Discription of Item	No	Length	Breadth	Depth	Qty	Unit
Ch:84.40m to 87.90m	1	3.50	(8.40 + 8.40) / 2	0.15	4.41	
Deduction of Flag Portion	1	-4.00	(2.50 + 2.50) / 2	0.15	-1.50	
Government High School Beside Rd						
Ch:0.00m to 30.00m	1	30.00	(2.50 + 2.00) / 2	0.15	10.13	
Ch:30.00m to 60.00m	1	30.00	(2.00 + 2.50) / 2	0.15	10.13	
Ch:60.00m to 84.60m	1	24.60	(2.50 + 2.50) / 2	0.15	9.23	
				Total Qty	**944.12**	**Cum**
Qty Paid in 1st Bill MB Vide Page No.				,	**9.15**	**Cum**
				Balance Qty to be Paid in 2nd Bill	**934.96**	**Cum**
			612.24 ~~685.09~~	**Upto 125%**	**615.93**	**Cum**
			~~309.17~~	**Above 125%**	**322.73**	**Cum**

Total Qty = ____ Cum

Qty paid vide page no. 5/10703 of MB no. 5108 = 9.15 Cum

Balance Qty to be paid ~~recorded~~ vide page no. 25 of 63 in excel sheet MB of RA bill 2 = ____ Cum

Qty upto 125% is ____ Cum @ Rs. 1855/- = Rs.

Qty above 125% is ____ Cum @ Rs. 1855/- = Rs. 598664.15/-

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 02.

SILICON CONSULTING ENGINEERS

...Engineer Sub-division ...IP, Bangalore | Consultant | Asst. Engineer | Asst. Exec. Engineer

Name of Work: Repair and Improvements to drains Mandi Mariyappa Reddy main road in Mariyannapalya in ward No 07 Byatarayanapura

Detailed Measurements

Measurement Recorded On: 24.02.20[illegible]

Sl No	Description of Item	No	Length	Breadth	Depth	Qty	Unit
	KSRRB M400-17 Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications including all lead and lead including loading and unloading and specifications						
	KV Jairam Rd to Aarav systems						
	RHS						
	Ch:0.00 to 30.00m	1	30.00	2.00	0.15	9.00	
	Ch:30.00 to 60.00m	1	30.00	2.00	0.15	9.00	
	Ch:60.00 to 80.80m	1	20.80	2.00	0.15	6.24	
	Gap						
	Ch:80.80 to 89.00m	1	8.20	2.00	0.15	2.46	
	Ch:89.00 to 119.00m	1	30.00	2.00	0.15	9.00	
	Ch:119.00 to 138.70m	1	19.70	2.00	0.15	5.91	
	Gap						
	Ch:138.70 to 147.90m	1	9.20	2.00	0.15	2.76	
	Ch:147.90 to 166.20m	1	18.30	2.00	0.15	5.49	
	Road Gap						
	Ch:166.20 to 178.90m	1	12.70	2.00	0.15	3.81	
	Ch:178.90 to 188.80m	1	9.90	2.00	0.15	2.97	
	Ch:188.80 to 196.20m	1	7.40	2.00	0.15	2.22	
	Gap						
	Aarav systems to Kempegowda circle						
	Ch:196.20 to 200.30m	1	4.10	2.00	0.15	1.23	
	Ch:200.30 to 208.50m	1	8.20	2.00	0.15	2.46	
	Ch:208.50 to 223.10m	1	14.60	2.00	0.15	4.38	
	Ch:223.10 to 253.10m	1	30.00	2.00	0.15	9.00	
	Ch:253.10 to 272.70m	1	19.60	2.00	0.15	5.88	
	Ch:272.70 to 276.30m	1	3.60	2.00	0.15	1.08	
	Ch:276.30 to 279.20m	1	2.90	2.00	0.15	0.87	
	Culvert Gap						
	Ch:279.20 to 297.00m	1	17.80	2.00	0.15	5.34	
	Ch:297.00 to 311.40m	1	14.40	2.00	0.15	4.32	
	Road Gap						
	Ch:311.40 to 315.60m	1	4.20	2.00	0.15	1.26	

...Engineer
...b-division,
Bangalore

SALCOM CONSULTING ENGINEERS
Consultant

Asst. Engineer

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bruhat Bengaluru Mahanagara Palike

Discription of Item	No	Length	Breadth	Depth	Qty	Unit
Ch 315.60 to 331.30m	1	15.70	2.00	0.15	4.71	
Ch 331.30 to 336.70m	1	5.40	2.00	0.15	1.62	
Ch 336.70 to 341.70m	1	5.00	2.00	0.15	1.50	
Culvert gap						
Ch 341.70 to 345.60m	1	3.90	2.00	0.15	1.17	
Ch 345.60 to 349.00m	1	3.40	2.00	0.15	1.02	
Ch 349.00 to 373.00m	1	24.00	2.00	0.15	7.20	
Ch 373.00 to 382.50m	1	9.50	2.00	0.15	2.85	
Ch 382.50 to 412.50m	1	30.00	2.00	0.15	9.00	
Ch 412.50 to 430.50m	1	18.00	2.00	0.15	5.40	
Culvert gap						
Ch 430.50 to 444.80m	1	14.30	2.00	0.15	4.29	
Ch 444.80 to 450.60m	1	5.80	2.00	0.15	1.74	
Ch 450.60 to 462.20m	1	11.60	2.00	0.15	3.48	
Ch 462.20 to 467.00m	1	4.80	2.00	0.15	1.44	
Ch 467.00 to 475.70m	1	8.70	2.00	0.15	2.61	
Ch 475.70 to 479.30m	1	3.60	2.00	0.15	1.08	
Ch 479.30 to 485.20m	1	5.90	2.00	0.15	1.77	
2nd Bill						
For Footpath						
From KV jayaraman Main Road						
RHS						
Ch: 0.00m to 30.00m	1	30.00	1.20	0.15	5.40	
Ch: 30.00m to 60.00m	1	30.00	0.90	0.15	4.05	
Ch: 60.00m to 70.00m	1	10.00	1.30	0.15	1.95	
Ch: 70.00m to 79.00m Gate Gap		9.00				
Ch: 79.00m to 90.00m	1	11.00	1.30	0.15	2.15	
Ch: 90.00m to 120.00m	1	30.00	1.50	0.15	6.75	
Ch: 120.00m to 135.20m	1	15.20	1.40	0.15	3.19	
Ch: 135.20m to 153.20m Gate Gap		18.00				
Ch: 153.20m to 171.20m	1	18.00	1.00	0.15	2.70	
From Butterfly Fashion Garments Road						
LHS						
Ch: 0.00m to 10.50m	1	10.50	1.20	0.15	1.89	
Ch: 10.50m to 34.50m	1	24.00	1.90	0.15	6.84	
Ch: 34.50m to 40.50m	1	6.00	1.90	0.15	1.71	
Ch: 40.50m to 52.00m	1	11.50	2.00	0.15	3.45	

Assistant Executive Engineer
Road Infrastructure ...
Bruhat Bengaluru ...

...ive Engineer
Sub-division
Bangalore

SILICON CONSULTING ENGINEERS
Consultant

Asst. Engineer

Assistant Executive Eng...
Road Infrastructure, Yelahanka
Bruhat Bengaluru Mahanagara...
Bengaluru - 02.

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Ch: 52.00m to 66.00m		14.00				
	Gap						
	Ch: 66.00m to 79.00m		13.00				
	Rd Gap						
	Ch: 79.00m to 100.00m	1	21.00	1.30	0.15	4.10	
	Ch: 100.00m to 108.00m	1	8.00	1.30	0.15	1.56	
	Ch: 108.00m to 138.00m	1	30.00	1.10	0.15	4.95	
	Ch: 138.00m to 165.70m	1	27.70	1.10	0.15	4.57	
	Ch: 165.70m to 173.30m		7.60				
	Gate Gap						
	Ch: 173.30m to 198.30m	1	25.00	2.00	0.15	7.50	
	Ch: 198.30m to 206.30m	1	8.00	2.30	0.15	2.76	
	Ch: 206.30m to 219.80m	1	13.50	2.30	0.15	4.66	
	Ch: 219.80m to 229.10m	1	9.30	2.60	0.15	3.63	
	RHS						
	Ch: 0.00m to 24.00m	1	24.00	1.10	0.15	3.96	
	Ch: 24.00m to 30.00m	1	6.00	1.10	0.15	0.99	
	Ch: 30.00m to 39.50m		9.50				
	Rd Gap						
	Ch: 39.50m to 55.50m	1	16.00	1.00	0.15	2.40	
	Ch: 55.50m to 68.50m	1	13.00	2.50	0.15	4.88	
	Ch: 68.50m to 89.50m	1	21.00	2.50	0.15	7.88	
	Ch: 89.50m to 97.50m		8.00				
	Rd Gap						
	Ch: 97.50m to 127.50m	1	30.00	2.00	0.15	9.00	
	Ch: 127.50m to 155.20m	1	27.70	2.00	0.15	8.31	
	Ch: 155.20m to 162.80m	1	7.60	1.10	0.15	1.25	
	Ch: 162.80m to 187.80m	1	25.00	1.00	0.15	3.75	
	Ch: 187.80m to 195.80m		8.00				
	Rd Gap						
	Ch: 195.80m to 209.30m	1	13.50	1.00	0.15	2.03	
	Near Kempegowda Circle Bus Stop						
	Ch: 0.00m to 29.00m	1	29.00	3.20	0.15	13.92	
	Asphalt Road						
	Balaji layout						
	Road 01						
	Ch:0.00m to 19.00m	1	19.00	(6.00 + 5.90) / 2	0.200	22.61	
	Road 02						
	Ch:0.00m to 30.00m	1	30.00	(6.40 + 5.90) / 2	0.200	36.90	

Assistant Executive Engineer
Road Infrastruture, (Yelahanka Division)
Bruhat Bengaluru Mahanagara Palike

Engineer
Sub-division,
Bangalore

CONSULTING ENGINEERS
Consultant

Asst. Engineer

Assistant Executive Engineer
Road Infrastruture, (Yelahanka Division)
Bruhat Bengaluru Mahanagara Palike

Discription of Item	No	Length	Breadth	Depth	Qty	Unit
Ch:30.00m to 59.00m	1	29.00	(5.90 + 6.30) / 2	0.200	35.38	
Road 03						
Ch:0.00m to 30.00m	1	30.00	(7.00 + 7.10) / 2	0.200	42.30	
Ch:30.00m to 60.00m	1	30.00	(7.10 + 7.70) / 2	0.200	44.40	
Ch:60.00m to 79.20m	1	19.20	(7.70 + 8.60) / 2	0.200	31.30	
Road 04						
Ch:0.00m to 30.00m	1	30.00	(7.50 + 6.10) / 2	0.200	40.80	
Ch:30.00m to 60.00m	1	30.00	(6.10 + 6.10) / 2	0.200	36.60	
Ch:60.00m to 79.00m	1	19.00	(6.10 + 6.70) / 2	0.200	24.32	
Road 05						
Ch:0.00m-to 21.70m	1	21.70	(6.70 + 8.60) / 2	0.200	33.20	
Road 06						
Ch:0.00m to 5.00m	1	5.00	(5.00 + 4.70) / 2	0.200	4.85	
Jakkur						
From KV jayaraman Main Road to Butterfly Garments						
Ch:0.00m to 30.00m	1	30.00	(3.00 + 3.00) / 2	0.225	20.25	
Ch:30.00m to 60.00m	1	30.00	(3.00 + 3.00) / 2	0.225	20.25	
Ch:60.00m to 90.00m	1	30.00	(3.00 + 3.00) / 2	0.225	20.25	
Ch:90.00m to 120.00m	1	30.00	(3.00 + 3.00) / 2	0.225	20.25	
Ch:120.00m to 150.00m	1	30.00	(3.00 + 3.00) / 8	0.225	20.25	
Ch:150.00m to 180.00m	1	30.00	(3.00 + 3.00) / 2	0.225	20.25	
Ch:180.00m to 195.20m	1	15.20	(3.00 + 3.00) / 2	0.225	10.26	
Ch:195.20m to 213.20m	1	18.00	(3.00 + 3.00) / 2	0.225	12.15	

...tive Engineer
...Sub-division
..., Bangalore

Consultant

Asst. Engineer

Assistant Executive Engineer
Road Infrastructure, ... Division
Bruhat Bengaluru Mahanagara Palike

Discription of Item	No	Length	Breadth	Depth	Qty	Unit
Ch:213.20m to 231.20m	1	18.00	(3.00 + 3.00)/2	0.225	12.15	
Ch:231.20m to 261.20m	1	30.00	(3.00 + 3.00)/2	0.225	20.25	
Ch:261.20m to 262.20m	1	1.00	(3.00 + 3.00)/2	0.225	0.68	
Ch:262.20m to 292.20m	1	30.00	(15.60 + 21.00)/2	0.225	123.53	
Ch:292.20m to 302.20m	1	10.00	(21.00 + 26.00)/2	0.225	52.88	
Ch:302.20m to 313.40m	1	11.20	(26.00 + 33.00)/2	0.225	74.34	
Ch:313.40m to 317.40m	1	4.00	(33.00 + 30.00)/2	0.225	28.35	
From Butterfly Garments to Kempegowda Circle						
Ch:0.00m to 19.00m	1	19.00	(2.50 + 2.50)/2	0.225	10.69	
Ch:19.00m to 49.00m	1	30.00	(2.50 + 2.50)/2	0.225	16.88	
Ch:49.00m to 51.00m	1	2.00	(2.50 + 2.50)/2	0.225	1.13	
Ch:51.00m to 61.50m	1	10.50	(2.50 + 2.50)/2	0.225	5.91	
Ch:61.50m to 85.50m	1	24.00	(2.50 + 2.50)/2	0.225	13.50	
Ch:85.50m to 91.50m	1	6.00	(2.50 + 2.50)/2	0.225	3.38	
Ch:91.50m to 101.00m	1	9.50	(2.50 + 2.50)/2	0.225	5.34	
Ch:101.00m to 115.00m	1	14.00	(2.50 + 2.50)/2	0.225	7.88	
Ch:115.50m to 128.00m	1	13.00	(2.50 + 2.50)/2	0.225	7.31	
Ch:128.00m to 149.00m	1	21.00	(2.50 + 2.50)/2	0.225	11.81	
Ch:159.00m to 157.00m	1	8.00	(2.50 + 2.50)/2	0.225	4.50	
Ch:167.00m to 187.00m	1	30.00	(2.50 + 2.50)/2	0.225	16.88	
Ch:187.00m to 214.70m	1	27.70	(2.50 + 2.50)/2	0.225	15.58	

SILICON CONSULTING ENGINEERS
Consultant

ve Engineer,
b-division,

Asst. Engineer

Assistant Executive Engine
Road Infrastructure, (Yelahanka Divi
Bruhat Bengaluru Mahanagara Pa

Name of Work: Repair and Improvements to drains Mandi Mariyappa Reddy main road in Mariyannapalya in ward No 07 Byatarayanapura

Detailed Measurements

urement Recorded On: 25-02-2022, 03-03-2022

Discription of Item	No	Length			Breadth	Depth	Qty	Unit
KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications including all lead and lead including loading and unloading and specifications as per the direction of engineer in charge								
Asphalt Road								
Jakkur								
From KV jayaraman Main Road to Butterfly Garments								
Ch:0.00m to 30.00m	1	30.00	3.00	+ 2	3.00		90.00	
Ch:30.00m to 60.00m	1	30.00	3.00	+ 2	3.00		90.00	
Ch:60.00m to 90.00m	1	30.00	3.00	+ 2	3.00		90.00	
Ch:90.00m to 120.00m	1	30.00	3.00	+ 2	3.00		90.00	
Ch:120.00m to 150.00m	1	30.00	3.00	+ 8	3.00		90.00	
Ch:150.00m to 180.00m	1	30.00	3.00	+ 2	3.00		90.00	
Ch:180.00m to 195.20m	1	15.20	3.00	+ 2	3.00		45.60	
Ch:195.20m to 213.20m	1	18.00	3.00	+ 2	3.00		54.00	
Ch:213.20m to 231.20m	1	18.00	3.00	+ 2	3.00		54.00	
Ch:231.20m to 261.20m	1	30.00	3.00	+ 2	3.00		90.00	
Ch:261.20m to 262.20m	1	1.00	3.00	+ 2	3.00		3.00	
Ch:262.20m to 292.20m	1	30.00	15.60	+ 2	21.00		549.00	
Ch:292.20m to 302.20m	1	10.00	21.00	+ 2	26.00		235.00	
Ch:302.20m to 313.40m	1	11.20	26.00	+ 2	33.00		330.40	

Assistant Executive Engineer, Road Infrastructure, Bruhat Bengaluru Mahanagara Palike, Bengaluru

Engineer Consultant, Division, Bangalore — SUNCON CONSULTING ENGINEERS

Asst. Engineer

Assistant Executive Engineer, Road Infrastructure, (Yelahanka Division), Bruhat Bengaluru Mahanagara Palike, Bengaluru - 02.

Discription of Item	No	Length			Breadth	Depth	Qty	Unit
Ch:313.40m to 317.40m	1	4.00	33.00	+ 2	30.00		126.00	
From Butterfly Garments to Kempegowda Circle								
Ch:0.00m to 19.00m	1	19.00	2.50	+ 2	2.50		47.50	
Ch 19.00m to 49.00m	1	30.00	2.50	+ 2	2.50		75.00	
Ch:49.00m to 51.00m	1	2.00	2.50	+ 2	2.50		5.00	
Ch:51.00m to 61.50m	1	10.50	2.50	+ 2	2.50		26.25	
Ch:61.50m to 85.50m	1	24.00	2.50	+ 2	2.50		60.00	
Ch:85.50m to 91.50m	1	6.00	2.50	+ 2	2.50		15.00	
Ch:91.50m to 101.00m	1	9.50	2.50	+ 2	2.50		23.75	
Ch:101.00m to 115.00m	1	14.00	2.50	+ 2	2.50		35.00	
Ch:115.50m to 128.00m	1	13.00	2.50	+ 2	2.50		32.50	
Ch:128.00m to 149.00m	1	21.00	2.50	+ 2	2.50		52.50	
Ch:159.00m to 157.00m	1	8.00	2.50	+ 2	2.50		20.00	
Ch:167.00m to 187.00m	1	30.00	2.50	+ 2	2.50		75.00	
Ch:187.00m to 214.70m	1	27.70	2.50	+ 2	2.50		69.25	
Ch:214.70m to 222.30m	1	7.60	2.50	+ 2	2.50		19.00	
Ch:222.30m to 247.30m	1	25.00	2.50	+ 2	2.50		62.50	
Ch:247.30m to 255.30m	1	8.00	2.50	+ 2	2.50		20.00	
Ch:255.30m to 268.80m	1	13.50	2.50	+ 2	2.50		33.75	
Ch:268.80m to 278.10m	1	9.30	2.50	+ 2	2.50		23.25	
Ch:278.10m to 308.10m	1	30.00	10.00	+ 2	10.00		300.00	

SILICON CONSULTING ENGINEERS
Consultant

Asst. Engineer

Assistant Executive Engineer

Discription of Item	No	Length	Breadth	Depth	Qty	Unit
Ch:308.10m to 317.60m	1	9.50	(22.00 + 25.00) / 2		223.25	
From Kempegowda Circle to Organic Valley Shop						
Ch:0.00m to 30.00m	1	30.00	(12.00 + 11.80) / 2		357.00	
Ch:30.00m to 52.60m	1	22.60	(11.80 + 10.60) / 2		253.12	
Ch:52.60m to 54.40m CD Gap	1	1.80				
Ch:54.40m to 84.40m	1	30.00	(10.60 + 8.00) / 2		279.00	
Ch:84.40m to 87.90m	1	3.50	(8.00 + 8.10) / 2		28.18	
Deduction of Flag Portion	1	-4.00	(2.50 + 2.50) / 2		-10.00	
Government High School Beside Rd						
Ch:0.00m to 30.00m	1	30.00	(2.50 + 2.00) / 2		67.50	
Ch:30.00m to 60.00m	1	30.00	(2.00 + 2.50) / 2		67.50	
Ch:60.00m to 84.60m	1	24.60	(2.50 + 2.50) / 2		61.50	
				Total Qty	**4349.30**	**Sqm**
Qty Paid in 1st Bill MB Vide Page No.				,	**0.00**	**Sqm**
				Balance Qty to be Paid in 2nd Bill	**4349.30**	**Sqm**

Total Qty = 4349.30 Sqm

Qty to be paid vide page no. 34 of 63 in excel sheet MB ~~RA~~ Bill 2 = 4349.30 Sqm

@ Rs. 29.68 per Sqm = Rs. 129087.08/-

Assistant Executive Engineer
Road Infrastructure
Bruhat Bengaluru

Engineer
Division,
Bengalore

SILICON CONSULTING ENGINEERS
Consultant

Asst. Engineer

Assistant Executive Engineer
Asst. Exe. Engineer, Yelahanka D
Road Infrastructure
Bruhat Bengaluru Mahanagara
Bengaluru - 02

Name of Work: Repair and Improvements to [illegible] main road in [illegible] in ward No [illegible]

Detailed Measurements

Measurement Recorded On: [illegible]

Description of Item	No.	Length			Breadth	Depth	Qty	Unit
[illegible] Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications (P No 178.) No-								
Asphalt Road								
Jakkur								
From KV [illegible] Main Road to Butterfly Garments								
Ch 0.00m to 30.00m	1	30.00	8.00	+	8.10		241.50	
				2				
Ch 30.00m to 60.00m	1	30.00	8.10	+	7.30		231.00	
				2				
Ch 60.00m to 90.00m	1	30.00	6.70	+	6.50		198.00	
				2				
Ch 90.00m to 120.00m	1	30.00	6.50	+	6.40		193.50	
				2				
Ch 120.00m to 150.00m	1	30.00	6.40	+	6.60		195.00	
				8				
Ch 150.00m to 180.00m	1	30.00	6.60	+	7.00		204.00	
				2				
Ch 180.00m to 195.20m	1	15.20	7.00	+	7.10		107.16	
				2				
Ch 195.20m to 213.20m	1	18.00	7.10	+	8.00		135.90	
				2				
Ch 213.20m to 231.20m	1	18.00	8.00	+	9.00		153.00	
				2				
Ch 231.20m to 261.20m	1	30.00	9.00	+	11.40		306.00	
				2				
Ch 261.20m to 262.20m	1	1.00	11.40	+	11.40		11.40	
				2				
Ch 262.20m to 292.20m	1	30.00	13.60	+	19.00		489.00	
				2				
Ch 292.20m to 302.20m	1	10.00	19.00	+	24.00		215.00	
				2				
Ch 302.20m to 313.40m	1	11.20	24.00	+	31.00		308.00	
				2				
Ch 313.40m to 317.40m	1	4.00	31.00	+	28.00		118.00	
				2				

Engineering Consultants, Bengaluru

Asst. Engineer

Asst. Executive Engineer, Bruhat Bengaluru Mahanagara Palike, Bengaluru - 02

Discription of Item	No	Length	Breadth	Depth	Qty	Unit
From Butterfly Garments to Kempegowda Circle						
Ch:0.00m to 19.00m	1	19.00	$\frac{6.60 + 6.40}{2}$		123.50	
Ch:19.00m to 49.00m	1	30.00	$\frac{5.60 + 5.50}{2}$		166.50	
Ch:49.00m to 51.00m	1	2.00	$\frac{5.50 + 5.50}{2}$		11.00	
Ch:51.00m to 61.50m	1	10.50	$\frac{5.50 + 5.70}{2}$		58.80	
Ch:61.50m to 85.50m	1	24.00	$\frac{5.70 + 5.80}{2}$		138.00	
Ch:85.50m to 91.50m	1	6.00	$\frac{5.80 + 5.80}{2}$		34.80	
Ch:91.50m to 101.00m	1	9.50	$\frac{5.80 + 5.90}{2}$		55.58	
Ch:101.00m to 115.00m	1	14.00	$\frac{5.90 + 5.80}{2}$		81.90	
Ch:115.50m to 128.00m	1	13.00	$\frac{5.80 + 5.70}{2}$		74.75	
Ch:128.00m to 149.00m	1	21.00	$\frac{5.70 + 5.80}{2}$		120.75	
Ch:159.00m to 157.00m	1	8.00	$\frac{5.80 + 5.70}{2}$		46.00	
Ch:167.00m to 187.00m	1	30.00	$\frac{5.80 + 5.80}{2}$		174.00	
Ch:187.00m to 214.70m	1	27.70	$\frac{5.80 + 5.70}{2}$		159.28	
Ch:214.70m to 222.30m	1	7.60	$\frac{5.70 + 5.70}{2}$		43.32	
Ch:222.30m to 247.30m	1	25.00	$\frac{5.70 + 5.80}{2}$		143.75	
Ch:247.30m to 255.30m	1	8.00	$\frac{5.80 + 5.80}{2}$		46.40	
Ch:255.30m to 268.80m	1	13.50	$\frac{5.80 + 6.50}{2}$		83.03	
Ch:268.80m to 278.10m	1	9.30	$\frac{7.60 + 9.30}{2}$		78.59	
Ch:278.10m to 308.10m	1	30.00	$\frac{10.90 + 19.50}{2}$		456.00	
Ch:308.10m to 317.60m	1	9.50	$\frac{19.50 + 38.50}{2}$		275.50	

...tive Engineer, Sub-division, Bangalore — SILICON CONSULTING ENGINEERS Consultant

Asst. Engineer

Asst. Exec. Engineer
Assistant Executive Engineer, Road Infrastructure, Bruhat Bengaluru Mahanagara Palike

ame of Work: Repair and Improvements to drains Mandi Mariyappa Reddy main road in Mariyannapalya in ward No 07 Byatarayanapura

Detailed Measurements

rement Recorded On: 26.02.2022 04-03.2022

Discription of Item	No	Length			Breadth	Depth	Qty	Unit
KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the repared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with pray set (excluding cleaning of road surface) including cost of all materials, labour, HOM omplete as per specifications including all lead and lead including loading and unloading and								
Asphalt Road								
Jakkur								
From KV jayaraman Main Road to Butterfly Garments								
Ch:0.00m to 30.00m	1	30.00	10.00	+	10.10 / 2		301.50	
Ch:30.00m to 60.00m	1	30.00	10.10	+	9.30 / 2		291.00	
Ch:60.00m to 90.00m	1	30.00	8.70	+	8.50 / 2		258.00	
Ch:90.00m to 120.00m	1	30.00	8.50	+	8.40 / 2		253.50	
Ch:120.00m to 150.00m	1	30.00	8.40	+	8.20 / 8		249.00	
Ch:150.00m to 180.00m	1	30.00	8.20	+	8.80 / 2		255.00	
Ch:180.00m to 195.20m	1	15.20	8.80	+	8.00 / 2		127.68	
Ch:195.20m to 213.20m	1	18.00	8.00	+	9.80 / 2		160.20	
Ch:213.20m to 231.20m	1	18.00	10.00	+	10.80 / 2		187.20	
Ch:231.20m to 261.20m	1	30.00	10.80	+	13.40 / 2		363.00	
Ch:261.20m to 262.20m	1	1.00	13.40	+	13.40 / 2		13.40	
Ch:262.20m to 292.20m	1	30.00	15.60	+	21.00 / 2		549.00	
Ch:292.20m to 302.20m	1	10.00	21.00	+	26.00 / 2		235.00	

Assistant Executive Engineer
Road Infrastructure (Yelahanka Division)
Bruhat Bengaluru Mahanagara Palike
Bengaluru

SILICON CONSULTING ENGINEERS

Consultant	Asst. Engineer	Asst. Exec. Engineer

e Engineer, -division, angalore

Assistant Executive Engineer
Road Infrastructure (Yelahanka Division)
Bruhat Bengaluru Mahanagara Palike

Discription of Item	No	Length			Breadth	Depth	Qty	Unit
:255.30m to 268.80m	1	13.50	8.00	+	9.00		114.75	
				2				
:268.80m to 278.10m	1	9.30	9.80	+	9.70		90.68	
				2				
:278.10m to 308.10m	1	30.00	13.40	+	22.00		531.00	
				2				
:308.10m to 317.60m	1	9.50	22.00	+	41.00		299.25	
				2				
om Kempegowda Circle to ganic Valley Shop								
:0.00m to 30.00m	1	30.00	12.00	+	11.80		357.00	
				2				
:30.00m to 52.60m	1	22.60	11.80	+	10.60		253.12	
				2				
:52.60m to 54.40m CD Gap	1	1.80						
:54.40m to 84.40m	1	30.00	10.60	+	8.00		279.00	
				2				
:84.40m to 87.90m	1	3.50	8.00	+	8.10		28.18	
				2				
eductio of Flag Portion	1	-4.00	2.50	+	2.50		-10.00	
				2				
overnment High School eside Rd								
:0.00m to 30.00m	1	30.00	9.50	+	7.40		253.50	
				2				
:30.00m to 60.00m	1	30.00	7.40	+	7.50		223.50	
				2				
:60.00m to 84.60m	1	24.60	7.50	+	7.20		180.81	
				2				
						Total Qty	**8349.30**	**Sqm**
						Qty Paid in 1st Bill MB Vide Page No. ,	**0.00**	**Sqm**
						Balance Qty to be Paid in 2nd Bill	**8349.30**	**Sqm**

Total Qty = 8349.30 Sqm

Qty to be paid recorded vide page no. 40 of 63 in excel Let MB of RA Bill 2 is 8349.30 Sqm @Rs. 12.72/- per Sqm = Rs. 106203.03/

Road Infrastructure ... Bruhat Bengaluru Mahanagara Palike Bengaluru - 02

CONSULTING ENGINEERS

ve Engineer, Consultants, Sub-division, Bangalore

Asst. Engineer

Asst. Exec. Engineer

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lame of Work: Repair and Improvements to drains Mandi Mariyappa Reddy main road in Mariyannapalya in ward No 07 Byatarayanapura

Detailed Measurements

urement Recorded On: 03.03.2022

Discription of Item	No	Length	Breadth	Depth	Qty	Unit
KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60						
Asphalt Road						
Jakkur						
From KV jayaraman Main Road to Butterfly Garments						
Ch:0.00m to 30.00m	1	30.00	(10.00 + 10.10) / 2	0.05	15.08	
Ch:30.00m to 60.00m	1	30.00	(10.10 + 9.30) / 2	0.05	14.55	
Ch:60.00m to 90.00m	1	30.00	(8.70 + 8.50) / 2	0.05	12.90	
Ch:90.00m to 120.00m	1	30.00	(8.50 + 8.40) / 2	0.05	12.68	
Ch:120.00m to 150.00m	1	30.00	(8.40 + 8.20) / 8	0.05	12.45	
Ch:150.00m to 180.00m	1	30.00	(8.20 + 8.80) / 2	0.05	12.75	
Ch:180.00m to 195.20m	1	15.20	(8.80 + 8.00) / 2	0.05	6.38	
Ch:195.20m to 213.20m	1	18.00	(8.00 + 9.80) / 2	0.05	8.01	
Ch:213.20m to 231.20m	1	18.00	(10.00 + 10.80) / 2	0.05	9.36	
Ch:231.20m to 261.20m	1	30.00	(10.80 + 13.40) / 2	0.05	18.15	
Ch:261.20m to 262.20m	1	1.00	(13.40 + 13.40) / 2	0.05	0.67	
Ch:262.20m to 292.20m	1	30.00	(15.60 + 21.00) / 2	0.05	27.45	

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 02.

utive Engineer
ctor
Sub-division
P, Bangalore

SRI SON CONSULTING ENGINEERS

Consultant

Asst. Engineer

Asst. Exec. Engineer

Discription of Item	No	Length	Breadth	Depth	Qty	Unit
:292.20m to 302.20m	1	10.00	(21.00 + 26.00) / 2	0.05	11.75	
:302.20m to 313.40m	1	11.20	(26.00 + 33.00) / 2	0.05	16.52	
:313.40m to 317.40m	1	4.00	(33.00 + 30.00) / 2	0.05	6.30	
rom Butterfly Garments to empegowda Circle						
:0.00m to 19.00m	1	19.00	(8.80 + 8.70) / 2	0.05	8.31	
:19.00m to 49.00m	1	30.00	(7.90 + 7.80) / 2	0.05	11.78	
:49.00m to 51.00m	1	2.00	(7.80 + 7.60) / 2	0.05	0.77	
:51.00m to 61.50m	1	10.50	(8.00 + 8.00) / 2	0.05	4.20	
:61.50m to 85.50m	1	24.00	(8.00 + 8.00) / 8	0.05	9.60	
:85.50m to 91.50m	1	6.00	(8.00 + 7.90) / 2	0.05	2.39	
:91.50m to 101.00m	1	9.50	(7.90 + 8.10) / 2	0.05	3.80	
:101.00m to 115.00m	1	14.00	(8.10 + 8.00) / 2	0.05	5.64	
:115.50m to 128.00m	1	13.00	(8.00 + 8.10) / 2	0.05	5.23	
:128.00m to 149.00m	1	21.00	(8.10 + 7.90) / 2	0.05	8.40	
:159.00m to 157.00m	1	8.00	(7.90 + 8.00) / 2	0.05	3.18	
:167.00m to 187.00m	1	30.00	(8.30 + 7.90) / 2	0.05	12.15	
:187.00m to 214.70m	1	27.70	(7.90 + 7.80) / 2	0.05	10.87	
:214.70m to 222.30m	1	7.60	(7.80 + 8.00) / 2	0.05	3.00	
:222.30m to 247.30m	1	25.00	(8.00 + 7.90) / 2	0.05	9.94	

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 02.

CONSULTING ENGINEERS
Consultant

...ive Engineer
...ub-division
Bangalore

Asst. Engineer

Asst. Exec. Engineer

Description of Item	No	Length	Breadth			Depth	Qty	Unit
Ch 247.30m to 255.30m	1	8.00	7.90	+	8.00	0.05	3.18	
				2				
Ch 255.30m to 268.80m	1	13.50	8.00	+	9.00	0.05	5.74	
				2				
Ch 268.80m to 278.10m	1	9.30	9.80	+	9.70	0.05	4.53	
				2				
Ch 278.10m to 308.10m	1	30.00	13.40	+	22.00	0.05	26.55	
				2				
Ch 308.10m to 317.60m	1	9.50	22.00	+	41.00	0.05	14.9[illegible]	
				2				
From Kempegowda Circle to Organic Valley Shop								
Ch 0.00m to 30.00m	1	30.00	12.00	+	11.80	0.05	17.85	
				2				
Ch 30.00m to 52.60m	1	22.60	11.80	+	10.60	0.05	12.66	
				2				
Ch 52.60m to 54.40m CD Gap	1	1.80						
Ch 54.40m to 84.40m	1	30.00	10.60	+	8.00	0.05	13.95	
				2				
Ch 84.40m to 87.90m	1	3.50	8.00	+	8.10	0.05	1.4[illegible]	
				2				
Deduction of Flag Portion	1	-4.00	2.50	+	2.50	0.05	-0.50	
				2				
Government High School Beside Rd								
Ch 0.00m to 30.00m	1	30.00	9.50	+	7.40	0.05	12.68	
				2				
Ch 30.00m to 60.00m	1	30.00	7.40	+	7.50	0.05	11.18	
				2				
Ch 60.00m to 84.60m	1	24.60	7.50	+	7.20	0.05	9.04	
				2				
						Total Qty	**417.46**	**Cum**
Qty Paid in 1st Bill MB Vide Page No.						,	**0.00**	**Cum**
						Balance Qty to be Paid in 2nd Bill	**417.46**	**Cum**

Total Qty = 417.46 Cum

Qty to be paid recorded vide page no. 43 of 63 in excel print MB of RA bill 2 417.46 Cum @ Rs. 6858.20/- per Cum = Rs. 2863056.75/-

Assistant Executive Engineer (Road Infrastructure Division) Bruhat Bengaluru Mahanagara Palike Bengaluru - 02.

Consultant

Asst. Engineer

Asst. Exec. Engineer

of Work: Repair and Improvements to drains Mandi Mariyappa Reddy main road in Mariyannapalya in ward No 07 Byatarayanapura

Detailed Measurements

Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
oving and refixing stone slabs of drains and pointing in CM (1:3) including all lead and lead ding loading and unloading and specifications as per the direction of engineer in charge								
Total Qty Vide Premeasurement page No.					113.40			
Qty Paid in 1st Bill MB Vide Page No.				,	**0.00**	**Sqm**		
Balance Qty to be Paid in 2nd Bill					**113.40**	**Cum**	**111.30**	**12621.42**
RB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled after breaking of clods complete as per specifications including all lead and lead including								
Total Qty Vide Premeasurement page No.					149.25			
Qty Paid in 1st Bill MB Vide Page No.				,	**88.71**	**Cum**		
Balance Qty to be Paid in 2nd Bill					**60.54**	**Cum**	**214.50**	**12985.28**
RB M300-14. Excavation for roadwork in all types of soil by mechanical means including g and loading to tippers, trimming bottom and side slopes, in accordance with requirements of grades and cross sections, and transportation with a lead of 6.00 km and complete as per								
Total Qty Vide Premeasurement page No.					2615.38			
Qty Paid in 1st Bill MB Vide Page No.				,	**582.03**	**Cum**		
Balance Qty to be Paid in 2nd Bill					**2033.35**	**Cum**	**57.02**	**115941.65**
B M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, rushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine ates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by								
Total Qty Vide Premeasurement page No.					81.42			
Qty Paid in 1st Bill MB Vide Page No.				,	**36.85**	**Cum**		
Balance Qty to be Paid in 2nd Bill					**44.57**	**Cum**		
Upto 125%					**9.21**	**Cum**	**5421.90**	**49949.25**
Above 125%					**35.36**	**Cum**	**5421.90**	**191721.09**
ng and laying plain/reinforced cement concrete for side drains using M20 nominal mix e with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 d fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom								
Total Qty Vide Premeasurement page No.					149.04			
Qty Paid in 1st Bill MB Vide Page No.				,	**78.78**	**Cum**		
Balance Qty to be Paid in 2nd Bill					**70.26**	**Cum**		
Upto 125%					**19.70**	**Cum**	**7273.72**	**143263.19**
Above 125%					**50.56**	**Cum**	**7273.72**	**367793.83**
4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, , hooking, placing in position, lapping and / or welding wherever required, tying with wire and anchoring to the adjoining members wherever necessary complete as per design								
Total Qty Vide Premeasurement page No.					7.22			
Qty Paid in 1st Bill MB Vide Page No.				,	**3.94**	**Tn**		
Balance Qty to be Paid in 2nd Bill					**3.28**	**Tn**		
Upto 125%					**0.99**	**Tn**	**72326.98**	**71661.57**
Above 125%					**2.29**	**Tn**	**72326.98**	**165864.14**
tion of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse rushed stone aggregates of granite/trap/basalt material, mixing by mix in place method by at OMC,spreading in uniform layers with motor grader on prepared surface and								
Total Qty Vide Premeasurement page No.					944.12			
Qty Paid in 1st Bill MB Vide Page No.				,	**9.15**	**Cum**		
Balance Qty to be Paid in 2nd Bill					**934.96**	**Cum**		
Upto 125%					**615.93**	**Cum**	**1855.00**	**1142556.64**
Above 125%					**322.73**	**Cum**	**1855.00**	**598664.15**

Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers								
Total Qty Vide Premeasurement page No.					1613.97			
Qty Paid in 1st Bill MB Vide Page No. ,					145.56	Cum		
Balance Qty to be Paid in 2nd Bill					1468.41	Cum		
Upto 125%					1338.33	Cum	2001.28	2678373.06
Above 125%					134.08	Cum	2001.28	268331.62
KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications including								
Total Qty Vide Premeasurement page No.					4349.30			
Qty Paid in 1st Bill MB Vide Page No.					0.00	Sqm		
Balance Qty to be Paid in 2nd Bill					4349.30	Sqm	29.68	129087.08
KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications including all lead and lead including								
Total Qty Vide Premeasurement page No.					5989.42			
Qty Paid in 1st Bill MB Vide Page No. ,					0.00	Sqm		
Balance Qty to be Paid in 2nd Bill					5989.42	Sqm		
Qty Limitted to in 2nd Bill					5947.20	Sqm	5.30	31520.16
KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per								
Total Qty Vide Premeasurement page No.					8349.30			
Qty Paid in 1st Bill MB Vide Page No. ,					0.00	Sqm		
Balance Qty to be Paid in 2nd Bill					8349.30	Sqm	12.72	106203.03
KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled,								
Total Qty Vide Premeasurement page No.					417.46			
Qty Paid in 1st Bill MB Vide Page No. ,					0.00	Cum		
Balance Qty to be Paid in 2nd Bill					417.46	Cum	6858.20	2863056.75

Contractor
Assistant Executive Engineer,
R.R. Nagar, Sub-division,
KRIDL, BBMP, Bangalore

SILICON CONSULTING ENGINEERS
Consultant

Assistant Engineer

Asst. Executive Engineer
Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 02.

ame of Work: Repair and Improvements to drains Mandi Mariyappa Reddy main road in Mariyannapalya in ward No 07 Byatarayanapura

Detailed Measurements

asurement Recorded On: 28.02.2022

m o	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
0	Providing and Fixing **pre cast covering Slab** made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of								
	RCC Drain Slab								
	KV Jairam Rd to Aarav systems								
	RHS								
	Ch:0.00 to 30.00m	1	30.00			30.00			
	Ch:30.00 to 60.00m	1	30.00			30.00			
	Ch:60.00 to 80.80m	1	20.80			20.80			
	Gap								
	Ch:80.80 to 89.00m	1	8.20			8.20			
	Ch:89.00 to 119.00m	1	30.00			30.00			
	Ch:119.00 to 138.70m	1	19.70			19.70			
	Gap								
	Ch:138.70 to 147.90m	1	9.20			9.20			
	Ch:147.90 to 166.20m	1	18.30			18.30			
	Road Gap								
	Ch:166.20 to 178.90m	1	12.70			12.70			
	Ch:178.90 to 188.80m	1	9.90			9.90			
	Ch:188.80 to 196.20m	1	7.40			7.40			
	Gap								
	LHS from Kempegowda circle								
	Ch:0.00 to 30.00m	1	30.00			30.00			
	Ch:30.00 to 50.00m	1	20.00			20.00			
	Ch:50.00 to 59.00m	1	9.00			9.00			
	Ch:59.00 to 89.00m	1	30.00			30.00			
	Ch:89.00 to 108.40m	1	19.40			19.40			
	Gap					0.00			
	Ch:108.40 to 137.80m	1	29.40			29.40			
	2nd bill								
	RCC Drain								
	Butterfly Garments Road								
	LHS								
	Ch:0.00m to 30.00m	1	30.00			30.00			
	Ch:30.00m to 41.00m	1	11.00			11.00			

Road Infrastructu... Bruhat Bengaluru ...nagara Palike Bengaluru - 02

SILICON CONSULTING ENGINEERS

Executive Engineer / Consultant / Asst. Engineer / Asst. Exec. Engineer

Road Infrastructure, ... Bruhat Bengaluru Mahanagara Palike

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
	Kempegowda Circle								
	RHS								
	Ch:0.00m to 16.60m	1	16.60			16.60			
	Drain Desilt								
	RHS from Kempegowda circle								
	Ch: 0.00m to 30.00m	1	30.00			30.00			
	Ch: 30.00m to 60.00m	1	30.00			30.00			
	Ch: 60.00m to 90.00m	1	30.00			30.00			
	Ch: 90.00m to 120.00m	1	30.00			30.00			
	Ch: 120.00m to 150.00m	1	30.00			30.00			
	Ch: 150.00m to 154.00m	1	4.00			4.00			
	Government High School Beside Rd								
	LHS								
	Ch: 0.00m to 30.00m	1	30.00			30.00			
	Ch: 30.00m to 60.00m	1	30.00			30.00			
	Ch: 60.00m to 65.00m	1	5.00			5.00			
	Missing/Damaged Slab	1	20.00			20.00			
		1	13.00			13.00			
		1	18.00			18.00			
		1	11.00			11.00			
		1	23.00			23.00			
					Total Qty	**695.60**			
	Qty Paid in 1st Bill MB Vide Page No.				,	**623.00**	**m**		
					Balance Qty to be Paid in 2nd Bill	**72.60**	**m**	**1145.86**	**83189.44**

Assistant Executive Engineer
Road Infrastructure, Yelahanka Division
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 02.

Assistant Executive Engineer
Road Infrastructure, Yelahanka Division
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 02.

Assistant Executive Engineer
Road Infrastructure, Yelahanka Division
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 02

Consultants

Executive Engineer, Sub-division, BBMP, Bengaluru

Asst. Engineer

Asst. Exec. Engineer

Name of Work: Repair and Improvements to drains Mandi Mariyappa Reddy main road in Mariyannapalya in ward No 07 Byatarayanapura

Detailed Measurements

Measurement Recorded On: 14.02.2022

Item No	Description of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
11	KSRB 14.6 : Providing and laying heavy duty cobble stones interlock pavers, 60mm thick using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up								
	For Footpath								
	From KV jayaraman Main Road								
	RHS								
	Ch: 0.00m to 30.00m	1	30.00	1.20		36.00			
	Ch: 30.00m to 60.00m	1	30.00	0.90		27.00			
	Ch: 60.00m to 70.00m	1	10.00	1.30		13.00			
	Ch: 70.00m to 79.00m Gate Gap		9.00						
	Ch: 79.00m to 90.00m	1	11.00	1.30		14.30			
	Ch: 90.00m to 120.00m	1	30.00	1.50		45.00			
	Ch: 120.00m to 135.20m	1	15.20	1.40		21.28			
	Ch: 135.20m to 153.20m Gate Gap		18.00						
	Ch: 153.20m to 171.20m	1	18.00	1.00		18.00			
	From Butterfly Fashion Garments Road								
	LHS								
	Ch: 0.00m to 10.50m	1	10.50	1.20		12.60			
	Ch: 10.50m to 34.50m	1	24.00	1.90		45.60			
	Ch: 34.50m to 40.50m	1	6.00	1.90		11.40			
	Ch: 40.50m to 52.00m	1	11.50	2.00		23.00			
	Ch: 52.00m to 66.00m Gap		14.00						
	Ch: 66.00m to 79.00m Rd Gap		13.00						
	Ch: 79.00m to 100.00m	1	21.00	1.30		27.30			
	Ch: 100.00m to 108.00m	1	8.00	1.30		10.40			
	Ch: 108.00m to 138.00m	1	30.00	1.10		33.00			
	Ch: 138.00m to 165.70m	1	27.70	1.10		30.47			
	Ch: 165.70m to 173.30m Gate Gap		7.60						
	Ch: 173.30m to 198.30m	1	25.00	2.00		50.00			
	Ch: 198.30m to 206.30m	1	8.00	2.30		18.40			
	Ch: 206.30m to 219.80m	1	13.50	2.30		31.05			
	Ch: 219.80m to 229.10m	1	9.30	2.60		24.18			
	RHS								
	Ch: 0.00m to 24.00m	1	24.00	1.10		26.40			
	Ch: 24.00m to 30.00m	1	6.00	1.10		6.60			
	Ch: 30.00m to 39.50m Rd Gap		9.50						

Contractor / Executive Engineer, ...agar, Sub-division, BBMP

Consultant

SILICON CONSULTING ENGINEERS

Asst. Engineer

Asst. Exec. Engineer,

Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
Ch: 39.50m to 55.50m	1	16.00	1.00		16.00			
Ch: 55.50m to 68.50m	1	13.00	2.50		32.50			
Ch: 68.50m to 89.50m	1	21.00	2.50		52.50			
Ch: 89.50m to 97.50m Rd Gap		8.00						
Ch: 97.50m to 127.50m	1	30.00	2.00		60.00			
Ch: 127.50m to 155.20m	1	27.70	2.00		55.40			
Ch: 155.20m to 162.80m	1	7.60	0.90		6.84			
Ch: 162.80m to 187.80m	1	25.00	1.00		25.00			
Ch: 187.80m to 195.80m Rd Gap		8.00						
Ch: 195.80m to 209.30m	1	13.50	1.00		13.50			
Near Kempegowda Circle Bus Stop								
Ch: 0.00m to 29.00m	1	29.00	2.90		84.10			
Total Qty					**870.82**	**Sqm**		
Qty Paid in 1st Bill MB Vide Page No.				,	**0.00**	**Sqm**		
Balance Qty to be Paid in 2nd Bill					**870.82**	**Sqm**	**1176.60**	**1024606.81**

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 02.

SILICON CONSULTING ENGINEERS
Consultant

Executive Engineer, Sub-Division, BBMP Bangalore

Asst. Engineer

Asst. Exec. Engineer,

Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
Ch 434.20 to 452.20m	1	18.00			18.00			
Culvert gap								
Ch 452.20 to 466.50m	1	14.30			14.30			
Ch 466.50 to 472.30m								
Ch 472.30 to 483.90m	1	11.60			11.60			
Ch 483.90 to 488.70m								
Ch 488.70 to 497.40m	1	8.70			8.70			
Ch 497.40 to 501.00m								
Ch 501.00 to 506.90m	1	5.90			5.90			
2nd Bill								
Government High School Beside Rd								
LHS								
Ch: 0.00m to 30.00m	1	30.00			30.00			
Ch: 30.00m to 60.00m	1	30.00			30.00			
Ch: 60.00m to 65.00m	1	5.00			5.00			
RHS								
Ch: 0.00m to 30.00m	1	30.00			30.00			
Ch: 30.00m to 60.00m	1	30.00			30.00			
Ch: 60.00m to 65.00m	1	5.00			5.00			
Govt School Road								
LHS								
Ch: 0.00m to 30.00m	1	30.00			30.00			
Ch: 30.00m to 60.00m	1	30.00			30.00			
Ch: 60.00m to 90.00m	1	30.00			30.00			
Ch: 90.00m to 120.00m	1	30.00			30.00			
Ch: 120.00m to 137.00m	1	17.00			17.00			
Road Gap								
Ch: 137.00m to 167.00m	1	30.00			30.00			
Ch: 167.00m to 197.00m	1	30.00			30.00			
Ch: 197.00m to 227.00m	1	30.00			30.00			
Ch: 227.00m to 257.00m	1	30.00			30.00			
Ch: 257.00m to 287.00m	1	30.00			30.00			
Ch: 287.00m to 291.00m	1	4.00			4.00			
KV Jayaram Road to Butterfly Garments								
LHS								
Ch: 0.00m to 30.00m	1	30.00			30.00			
Ch: 30.00m to 60.00m	1	30.00			30.00			
Ch: 60.00m to 90.00m	1	30.00			30.00			
Ch: 90.00m to 120.00m	1	30.00			30.00			
Ch: 120.00m to 150.00m	1	30.00			30.00			
Ch: 150.00m to 180.00m	1	30.00			30.00			
Ch: 180.00m to 210.00m	1	30.00			30.00			
Ch: 210.00m to 240.00m	1	30.00			30.00			

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 02.

Consultant Engineer, KRM CONSULTING ENGINEERS

Executive Engineer, ...agar, Sub-Division, BBMP

Asst. Engineer

Asst. Exec. Engineer,
Road Infrastructure (Yelahanka Division)
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 02.

Item No	Description of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
	Ch 240.00m to 270.00m	1	30.00			30.00			
	Ch 270.00m to 300.00m	1	30.00			30.00			
	Ch 300.00m to 316.00m	1	16.00			16.00			
						1194.70			
					Total Qty	2655.00			
	Qty Paid in 1st Bill MB Vide Page No.					1018.00	Nos		
	Balance Qty to be Paid in 2nd Bill					1637.00	Nos	432.48	707969.76

Assistant Executive Engineer
Road Infrastructure, Yelahanka Division
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 02.

Assistant Executive Engineer
Road Infrastructure, Yelahanka Division
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 02.

Assistant Executive Engineer,
R.R. Nagar Sub-division,
KRIDL, BBMP, Bangalore

SILICON CONSULTING ENGINEERS
Consultant

Contractor

Asst. Engineer

Asst. Exec. Engineer,

Name of Work: Repair and Improvements to drains Mandi Mariyappa Reddy main road in Mariyannapalya in ward No 07 Byatarayanapura

Detailed Measurements

Measurement Recorded On: 08-03-2022

Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using – do – using								
Asphalt Road								
Jakkur								
From KV jayaraman Main Road to Butterfly Garments								
Ch:0.00m to 30.00m	1	30.00	(10.00 + 10.10)/2	0.04	12.06			
Ch:30.00m to 60.00m	1	30.00	(10.10 + 9.30)/2	0.04	11.64			
Ch:60.00m to 90.00m	1	30.00	(8.70 + 8.50)/2	0.04	10.32			
Ch:90.00m to 120.00m	1	30.00	(8.50 + 8.40)/2	0.04	10.14			
Ch:120.00m to 150.00m	1	30.00	(8.40 + 8.20)/2	0.04	9.96			
Ch:150.00m to 180.00m	1	30.00	(8.20 + 8.80)/2	0.04	10.20			
Ch:180.00m to 195.20m	1	15.20	(8.80 + 8.00)/2	0.04	5.11			
Ch:195.20m to 213.20m	1	18.00	(8.00 + 9.80)/2	0.04	6.41			
Ch:213.20m to 231.20m	1	18.00	(10.00 + 10.80)/2	0.04	7.49			
Ch:231.20m to 261.20m	1	30.00	(10.80 + 13.40)/2	0.04	14.52			
Ch:261.20m to 262.20m	1	1.00	(13.40 + 13.40)/2	0.04	0.54			
Ch:262.20m to 292.20m	1	30.00	(15.60 + 21.00)/2	0.04	21.96			
Ch:292.20m to 302.20m	1	10.00	(21.00 + 26.00)/2	0.04	9.40			
Ch:302.20m to 313.40m	1	11.20	(26.00 + 33.00)/2	0.04	13.22			
Ch:313.40m to 317.40m	1	4.00	(33.00 + 30.00)/2	0.04	5.04			
From Butterfly Garments to Kempegowda Circle								
Ch:0.00m to 19.00m	1	19.00	(8.80 + 8.70)/2	0.04	6.65			
Ch:19.00m to 49.00m	1	30.00	(7.90 + 7.80)/2	0.04	9.42			

Assistant Executive Engineer, Road Infrastructure (Yelahanka Division), Bruhat Bengaluru Mahanagara Palike, Bengaluru - 02

CFE 30/05/2022

Assistant Executive Engineer, Road Infrastructure (Yelahanka Division), Bruhat Bengaluru Mahanagara Palike, Bengaluru - 02

Executive Engineer, ... Nagar, Sub-division, ..., BBMP, Bangalore — Consultant — Consulting Engineers

Asst. Engineer

Asst. Exec. Engineer

Assistant Executive Engineer, Road Infrastructure (Yelahanka Division), Bruhat Bengaluru Mahanagara Palike, Bengaluru - 02

Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
Ch:49.00m to 51.00m	1	2.00	(7.80 + 7.60) / 2	0.04	0.62			
Ch:51.00m to 61.50m	1	10.50	(8.00 + 8.00) / 2	0.04	3.36			
Ch:61.50m to 85.50m	1	24.00	(8.00 + 8.00) / 8	0.04	7.68			
Ch:85.50m to 91.50m	1	6.00	(8.00 + 7.90) / 2	0.04	1.91			
Ch:91.50m to 101.00m	1	9.50	(7.90 + 8.10) / 2	0.04	3.04			
Ch:101.00m to 115.00m	1	14.00	(8.10 + 8.00) / 2	0.04	4.51			
Ch:115.50m to 128.00m	1	13.00	(8.00 + 8.10) / 2	0.04	4.19			
Ch:128.00m to 149.00m	1	21.00	(8.10 + 7.90) / 2	0.04	6.72			
Ch:159.00m to 157.00m	1	8.00	(7.90 + 8.00) / 2	0.04	2.54			
Ch:167.00m to 187.00m	1	30.00	(8.30 + 7.90) / 2	0.04	9.72			
Ch:187.00m to 214.70m	1	27.70	(7.90 + 7.80) / 2	0.04	8.70			
Ch:214.70m to 222.30m	1	7.60	(7.80 + 8.00) / 2	0.04	2.40			
Ch:222.30m to 247.30m	1	25.00	(8.00 + 7.90) / 2	0.04	7.95			
Ch:247.30m to 255.30m	1	8.00	(7.90 + 8.00) / 2	0.04	2.54			
Ch:255.30m to 268.80m	1	13.50	(8.00 + 9.00) / 2	0.04	4.59			
Ch:268.80m to 278.10m	1	9.30	(9.80 + 9.70) / 2	0.04	3.63			
Ch:278.10m to 308.10m	1	30.00	(13.40 + 22.00) / 2	0.04	21.24			
Ch:308.10m to 317.60m	1	9.50	(22.00 + 41.00) / 2	0.04	11.97			
From Kempegowda Circle to Organic Valley Shop								
Ch:0.00m to 30.00m	1	30.00	(12.00 + 11.80) / 2	0.04	14.28			
Ch:30.00m to 52.60m	1	22.60	(11.80 + 10.60) / 2	0.04	10.12			
Ch:52.60m to 54.40m CD Gap	1	1.80						
Ch:54.40m to 84.40m	1	30.00	(10.60 + 8.00) / 2	0.04	11.16			
Ch:84.40m to 87.90m	1	3.50	(8.00 + 8.10) / 2	0.04	1.13			
Deduction of Flag Portion	1	-4.00	(2.50 + 2.50) / 2	0.04	-0.40			
Government High School Beside Rd								
Ch:0.00m to 30.00m	1	30.00	(9.50 + 7.40) / 2	0.04	10.14			

Assistant Executive Engineer
Road Infrastructure, ... ananka Division
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 02.

SILICON CONSULTING ENGINEERS
Consultant

Executive Engineer, ... Nagar, Sub-division ... BBMP

Asst. Engineer

Assistant Executive Engineer
Road Infrastructure, ... ananka Division
Bruhat Bengaluru Mahanagara Palike
Asst. Exec. Engineer
Bengaluru - 02

Discription of Item	No	Length	Breadth			Depth	Qty	Unit	Rate	Amount
Ch.30.00m to 60.00m	1	30.00	7.40	+	7.50	0.04	8.94			
				2						
Ch.60.00m to 84.60m	1	24.60	7.50	+	7.20	0.04	7.23			
				2						
						Total Qty	333.97	Cum		
Qty Paid in 1st Bill MB Vide Page No.							0.00	Cum		
						Balance Qty to be Paid in 2nd Bill	333.97	Cum	8049.64	2688352.76

Assistant Executive Engineer
Road Infrastructure Yelahanka Division)
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 02.

CONSULTING ENGINEERS
Consultant

Asst. Engineer

Asst. Exec. Engineer

Name of Work: Repair and Improvements to drains Mandi Mariyappa Reddy main road in Mariyannapalya in ward No 07 Byatarayanapura

Detailed Measurements

Measurement Recorded On: 16-03-2022

Description of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards								
Road								
Jakkur								
From KV jayaraman Main Road to Butterfly Garments								
	2.5	30.00	0.10		7.50			
	2.5	30.00	0.10		7.50			
	2.5	30.00	0.10		7.50			
	2.5	30.00	0.10		7.50			
	2.5	30.00	0.10		7.50			
	2.5	30.00	0.10		7.50			
	2.5	15.20	0.10		3.80			
	2.5	18.00	0.10		4.50			
	2.5	18.00	0.10		4.50			
	2.5	30.00	0.10		7.50			
	2.5	1.00	0.10		0.25			
	2.5	30.00	0.10		7.50			
	2.5	10.00	0.10		2.50			
	2.5	11.20	0.10		2.80			
	2.5	4.00	0.10		1.00			
From Butterfly Garments to Kempegowda Circle								
	2.5	19.00	0.10		4.75			
	2.5	30.00	0.10		7.50			
	2.5	2.00	0.10		0.50			
	2.5	10.50	0.10		2.63			
	2.5	24.00	0.10		6.00			
	2.5	6.00	0.10		1.50			
	2.5	9.50	0.10		2.38			
	2.5	14.00	0.10		3.50			
	2.5	13.00	0.10		3.25			
	2.5	21.00	0.10		5.25			
	2.5	8.00	0.10		2.00			
	2.5	30.00	0.10		7.50			
	2.5	27.70	0.10		6.93			
	2.5	7.60	0.10		1.90			
	2.5	25.00	0.10		6.25			

Assistant Executive Engineer

Consultant

Asst. Engineer

Asst. Exec. Engineer

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
		2.5	8.00	0.10		2.00			
		2.5	13.50	0.10		3.38			
		2.5	9.30	0.10		2.33			
		2.5	30.00	0.10		7.50			
		2.5	9.50	0.10		2.38			
	From Kempegowda Circle to Organic Valley Shop								
		2.5	30.00	0.10		7.50			
		2.5	22.60	0.10		5.65			
	Culvert Gap		1.80						
		2.5	30.00	0.10		7.50			
		2.5	3.50	0.10		0.88			
	Government High School Beside Rd								
		2.5	30.00	0.10		7.50			
		2.5	30.00	0.10		7.50			
		2.5	24.60	0.10		6.15			
					Total Qty	**201.43**	**Sqm**		
	Qty Paid in 1st Bill MB Vide Page No.				,	**0.00**	**Sqm**		
					Balance Qty to be Paid in 2nd Bill	**201.43**	**Sqm**	454.74	91596.00

Assistant Executive Engineer
Road Infrastructure, (Yelahanka Division)
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 02.

SILICON CONSULTING ENGINEERS

Contractor | Consultant | Asst. Engineer | Asst. Exec. Engineer

Name of Work: Repair and Improvements to drains Mandi Mariyappa Reddy main road in Mariyannapalya in ward No 07 Byatarayanapura

Detailed Measurements

Measurement Recorded On: 21.03.2022

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
22	KSRRB M800-35. Supply and Installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A								
	Road								
	Jakkur								
	From KV jayaraman Main Road to Butterfly Garments	3	39			117.00			
	From Butterfly Garments to Kempegowda Circle	3	40			120.00			
	From Kempegowda Circle to Organic Valley Shop	3	11			33.00			
	Government High School Beside Rd	3	10			30.00			
					Total Qty	**300.00**	**Nos**		
	Qty Paid in 1st Bill MB Vide Page No.				**,**	**0.00**	**Nos**		
	Balance Qty to be Paid in 2nd Bill					**300.00**	**Nos**	**357.22**	**107166.00**
						SUB TOTAL			**16763755.54**
						4% KRIDL			**670550.22**
						GST 12%			**2092116.69**
						GRAND TOTAL			**19526422.45**

Assistant Executive Engineer
Road Infrastructure, (Yalahanka Division)
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 02.

Assistant Executive Engineer
Road Infrastructure, (Yalahanka Division)
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 02.

SILICON CONSULTING ENGINEERS

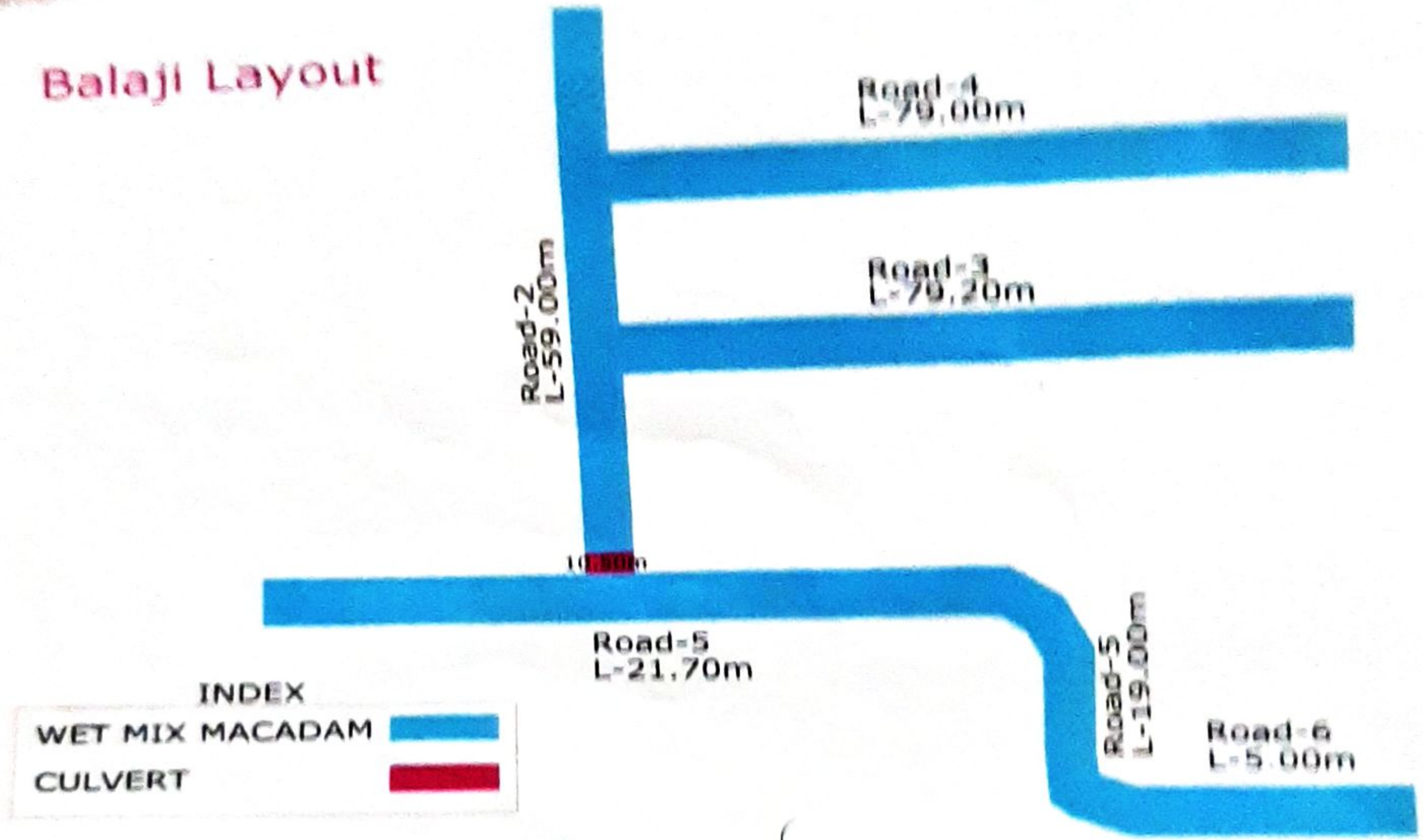
Contractor / Executive Engineer / Consultant

Asst. Engineer

Asst. Exec. Engineer

Repair and Improvements to Drains Mandi Mariyappa Reddy Main Road in Mariyannapalya in ward No-07 Byatarayanapura

Assistant Executive Engineer



Silicon Consulting Engineers

Repair and Improvements to Drains Mandi Mariyappa Keldy Main Road in Mariyannapalya in ward No 07 Byatarayanapura